

ATTACHMENT U-5

TIER 1 EXPOSURE AND RISK WORKBOOKS

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TABLES

Table U.A5-1
Risk Estimates for Plants and Soil Invertebrates in Background Areas

| CPEC | Background | | | | |
|-------------------|--------------------------|---|------------------|---|------------------|
| | Soil 95UTL (mg/kg) | Plant Toxicity Value ^a (mg/kg) | HQ (unitless) | Soil Invertebrate Toxicity Value ^b (mg/kg) | HQ (unitless) |
| Inorganics | | | | | |
| Barium | 174 | 500 | 0.3 | 330 | 0.5 |
| Beryllium | 0.91 | 10 | 0.09 | 40 | 0.02 |
| Cadmium | 3.2 | 32 | 0.1 | 140 | 0.02 |
| Chromium | 47 | 1.0 | 47 | 0.40 | 118 |
| Cobalt | 20 | 13 | 2 | 50 | 0.4 |
| Copper | 19 | 70 | 0.3 | 80 | 0.2 |
| Total Cyanide | No Data | -- | -- | 0.90 | -- |
| Lead | 12 | 120 | 0.1 | 1700 | 0.007 |
| Manganese | 330 | 220 | 2 | 450 | 0.7 |
| Mercury | 0.026 | 0.30 | 0.09 | 0.10 | 0.3 |
| Molybdenum | 10 | 2.0 | 5 | 40 | 0.3 |
| Nickel | 49 | 38 | 1 | 280 | 0.2 |
| Selenium | 3.3 | 1.0 | 3 | 70 | 0.05 |
| Thallium | 0.64 | 1.0 | 0.6 | 1.0 | 0.6 |
| Tin | 65 | 50 | 1 | 50 | 1 |
| Vanadium | 81 | 2.0 | 41 | 1.6 | 51 |
| Zinc | 104 | 50 | 2 | 100 | 1 |

CPEC = Constituent of Potential Ecological Concern

HQ = Hazard Quotient (unitless)

NA = Not Applicable

EPC = Exposure Point Concentration

No Data = CPEC was not analyzed in the sample

-- = in TRV column, compound not a CPEC in the matrix, or Screening Level not available. In HQ column, HQ not calculated.

95UTL = 95 percent upper threshold limit.

Soil is surface values (0-0.5 ft.)

mg/kg, dw = milligrams per kilogram, dry weight

HQ > 1

Table U.A5-2
Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Background Areas

| CPEC | Background | | | | |
|-------------------------------|------------------------------|---|------------------|--|------------------|
| | 95UTL Sediment (mg/kg) | Selected Low Screening Value ^a (mg/kg) | HQ (unitless) | Selected High Screening Value ^a (mg/kg) | HQ (unitless) |
| Inorganics^a | | | | | |
| Barium | 174 | -- | -- | -- | -- |
| Chromium | 47 | 43 | 1 | 111 | 0.4 |
| Manganese | 330 | 460 | 0.7 | 1100 | 0.3 |
| Mercury | 0.026 | 0.18 | 0.1 | 1.1 | 0.02 |
| Molybdenum | 10 | -- | -- | -- | -- |
| Selenium | 3.3 | 2.5 | 1 | 4.0 | 0.8 |
| Thallium | 0.64 | -- | -- | -- | -- |
| Tin | 65 | -- | -- | -- | -- |

CPEC = Constituent of Potential Ecological Concern

HQ = Hazard Quotient (unitless)

NA = Not Applicable

EPC = Exposure Point Concentration

No Data = CPEC was not analyzed in the sample

-- = in TRV column, compound not a CPEC in the matrix, or Screening Level not available. In HQ column, HQ not calculated.

95UTL = 95 percent upper threshold limit.

Sediment is surface values (0-0.5 feet below ground surface [bgs]).

mg/kg, dw = milligrams per kilogram, dry weight

HQ > 1

^a The sediment CPECs cadmium, copper, lead, nickel, and zinc were evaluated separately using Simultaneously Extracted Metals- Acid Volatile Sulfide (SEM-AVS) methodologies. AVS concentrations exceeded SEM concentrations for these CPECs indicating that the metals are bound to AVS and not available to aquatic receptors. Consequently, these CPECs are not included in this risk estimation.

Table U.A5-3
Background Area Exposure Point Concentrations for Wildlife
Based on 95% Upper Tolerance Level Concentrations

| CPEC | Soil (mg/kg, dw) | | Plants | Terrestrial Invertebrates | Small Mammals (Invertivore) | Small Mammals (Herbivore) | Sediment ^a | Aquatic Invertebrates |
|----------------------------|------------------|--------------|-------------|---------------------------|--------------------------------|------------------------------|-----------------------|--------------------------|
| | (0-0.5 ft bgs) | (0-5 ft bgs) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) |
| Inorganics | | | | | | | | |
| Barium | 174 | 174 | 27 | 16 | 0.12 | 0.20 | 174 | 206 |
| Beryllium | 0.91 | 0.91 | 0.55 | 0.041 | 0.0020 | 0.027 | 0.91 | 1.1 |
| Cadmium | 3.2 | 3.2 | 1.2 | 21 | 0.49 | 0.49 | 3.2 | 9.8 |
| Chromium | 47 | 47 | 1.9 | 14 | 3.9 | 3.9 | 47 | 22 |
| Cobalt | 20 | 20 | 0.15 | 2.4 | 0.58 | 0.58 | 20 | 24 |
| Copper | 19 | 19 | 6.2 | 9.8 | 12 | 12 | 19 | 28 |
| Lead | 12 | 12 | 1.1 | 5.9 | 3.2 | 3.2 | 12 | 0.79 |
| Manganese | 330 | 330 | 26 | 23 | 6.8 | 6.8 | 330 | 391 |
| Mercury | 0.026 | 0.026 | 0.052 | 0.27 | 0.0014 | 0.0014 | 0.026 | 0.030 |
| Molybdenum | 10 | 10 | 44 | 1.7 | 0.50 | 13 | 10 | 12 |
| Nickel | 49 | 49 | 2.0 | -- | 4.8 | 4.8 | 49 | 5.4 |
| Selenium | 3.3 | 3.3 | 1.9 | 2.2 | 1.0 | 1.0 | 3.3 | 3.9 |
| Thallium | 0.64 | 0.64 | 0.0026 | 0.16 | 0.072 | 0.072 | 0.64 | 0.76 |
| Tin | 65 | 65 | 13 | 11 | 0.55 | 0.65 | 65 | 77 |
| Vanadium | 81 | 81 | 0.39 | 3.4 | 1.0 | 1.0 | 81 | 0.0 |
| Zinc | 104 | 104 | 63 | 392 | 109 | 109 | 104 | 139 |
| Dioxins/Furans | | | | | | | | |
| Total Avian Dioxin TEQ | 1.60E-05 | 1.60E-05 | 8.96E-08 | 7.34E-05 | 1.20E-05 | 1.20E-05 | 1.60E-05 | 4.48E-05 |
| Total Mammalian Dioxin TEQ | 1.30E-05 | 1.30E-05 | 7.28E-08 | 5.74E-05 | 9.57E-06 | 9.57E-06 | 1.30E-05 | 3.64E-05 |

CPEC = Constituent of Potential Ecological Concern

95% UTL = 95% Upper Tolerance Level Concentration

ft bgs = feet below ground surface

HMW = High Molecular Weight

LMW = Low Molecular Weight

NA = Not Applicable

No Data = CPEC was not analyzed in the sample

PCB = Polychlorinated Biphenyl

TEQ = Toxic Equivalent; Total TEQ = Total PCB TEQ + Total Dioxin TEQ

-- = No Bioaccumulation Factor; EPC not calculated.

mg/kg, dw = milligrams per kilogram, dry weight

mg/L = milligrams per liter

^aSediment is surface values (0-0.5 ft. bgs)

Table U.A5-4
Dose Estimates for Wildlife in Background Areas
Based on 95% Upper Tolerance Level Concentration

| CPEC | Terrestrial Invertivorous Mammal | | Terrestrial Herbivorous | | Terrestrial Carnivorous | | Terrestrial Invertivorous & Herbivorous Bird | | | Terrestrial Carnivorous | |
|----------------------------|----------------------------------|--------------------|-----------------------------|------------|-----------------------------|-----------|--|--------------------|------------|---------------------------|-----------|
| | Ornate Shrew | | California Vole | | Striped Skunk | | Western Meadowlark | | | American Kestrel | |
| | SubsurfaceSoil ^a | Soil Invertebrates | SubsurfaceSoil ^b | Vegetation | SubsurfaceSoil ^a | Mammals | Surface Soil ^b | Soil Invertebrates | Vegetation | Surface Soil ^b | Mammals |
| | (mg/kg-d) | (mg/kg-d) | (mg/kg-d) | (mg/kg-d) | (mg/kg-d) | (mg/kg-d) | (mg/kg-d) | (mg/kg-d) | (mg/kg-d) | (mg/kg-d) | (mg/kg-d) |
| Inorganics | | | | | | | | | | | |
| Barium | 6.4 | 4.5 | 0.67 | 4.3 | 0.59 | 0.0076 | 5.7 | 5.2 | 8.9 | 0.34 | 0.040 |
| Beryllium | 0.033 | 0.012 | 0.0035 | 0.087 | 0.0031 | 0.0010 | 0.030 | 0.013 | 0.18 | 0.0018 | 0.0054 |
| Cadmium | 0.12 | 5.9 | 0.012 | 0.19 | 0.011 | 0.018 | 0.11 | 6.9 | 0.39 | 0.0063 | 0.098 |
| Chromium | 1.7 | 4.1 | 0.18 | 0.31 | 0.16 | 0.15 | 1.5 | 4.7 | 0.63 | 0.093 | 0.78 |
| Cobalt | 0.73 | 0.69 | 0.077 | 0.024 | 0.067 | 0.022 | 0.66 | 0.80 | 0.049 | 0.040 | 0.11 |
| Copper | 0.70 | 2.8 | 0.073 | 0.99 | 0.064 | 0.44 | 0.62 | 3.2 | 2.0 | 0.038 | 2.3 |
| Lead | 0.44 | 1.7 | 0.046 | 0.17 | 0.040 | 0.12 | 0.39 | 1.9 | 0.35 | 0.024 | 0.64 |
| Manganese | 12 | 6.5 | 1.3 | 4.1 | 1.1 | 0.25 | 11 | 7.6 | 8.6 | 0.65 | 1.3 |
| Mercury | 0.00095 | 0.076 | 0.00010 | 0.0083 | 0.000088 | 0.000053 | 0.00085 | 0.089 | 0.017 | 0.000051 | 0.00028 |
| Molybdenum | 0.37 | 0.47 | 0.038 | 7.0 | 0.034 | 0.50 | 0.33 | 0.55 | 15 | 0.020 | 2.6 |
| Nickel | 1.8 | -- | 0.19 | 0.32 | 0.16 | 0.18 | 1.6 | -- | 0.65 | 0.097 | 0.95 |
| Selenium | 0.12 | 0.63 | 0.013 | 0.30 | 0.011 | 0.039 | 0.11 | 0.73 | 0.62 | 0.0065 | 0.20 |
| Thallium | 0.023 | 0.046 | 0.0025 | 0.0041 | 0.0022 | 0.0027 | 0.021 | 0.054 | 0.00084 | 0.0013 | 0.014 |
| Tin | 2.4 | 3.1 | 0.25 | 2.1 | 0.22 | 0.024 | 2.1 | 3.6 | 4.3 | 0.13 | 0.13 |
| Vanadium | 3.0 | 0.96 | 0.31 | 0.062 | 0.27 | 0.037 | 2.7 | 1.1 | 0.13 | 0.16 | 0.20 |
| Zinc | 3.8 | 111 | 0.40 | 10 | 0.35 | 4.1 | 3.4 | 129 | 21 | 0.21 | 22 |
| Dioxins/Furans | | | | | | | | | | | |
| Total Avian Dioxin TEQ | 5.86E-07 | 2.07E-05 | 6.15E-08 | 1.42E-08 | 5.39E-08 | 4.50E-07 | 5.26E-07 | 2.41E-05 | 2.94E-08 | 3.17E-08 | 2.38E-06 |
| Total Mammalian Dioxin TEQ | 4.76E-07 | 1.62E-05 | 4.99E-08 | 1.16E-08 | 4.38E-08 | 3.58E-07 | 4.27E-07 | 1.89E-05 | 2.39E-08 | 2.57E-08 | 1.90E-06 |

Table U.A5-4
Dose Estimates for Wildlife in Background Areas
Based on 95% Upper Tolerance Level Concentration

| CPEC | Aquatic Invertivorous Bird (Wading Bird) | | | Aquatic Invertivorous Bird (Duck) | | | Aquatic Invertivorous Mammal | | |
|----------------------------|--|----------------------------|------------------------------------|------------------------------------|----------------------------|------------------------------------|------------------------------------|----------------------------|------------------------------------|
| | Killdeer | | | Mallard | | | Raccoon | | |
| | Sediment ^b (mg/kg-d) | Surface Water (mg/kg-d) | Aquatic Invertebrates (mg/kg-d) | Sediment ^b (mg/kg-d) | Surface Water (mg/kg-d) | Aquatic Invertebrates (mg/kg-d) | Sediment ^b (mg/kg-d) | Surface Water (mg/kg-d) | Aquatic Invertebrates (mg/kg-d) |
| | Inorganics | | | | | | | | |
| Barium | 10 | -- | 40 | 0.35 | -- | 14 | 0.54 | -- | 7.2 |
| Beryllium | 0.053 | -- | 0.21 | 0.0018 | -- | 0.072 | 0.0028 | -- | 0.037 |
| Cadmium | 0.19 | -- | 1.9 | 0.0064 | -- | 0.65 | 0.010 | -- | 0.34 |
| Chromium | 2.7 | -- | 4.3 | 0.094 | -- | 1.5 | 0.15 | -- | 0.76 |
| Cobalt | 1.2 | -- | 4.6 | 0.040 | -- | 1.6 | 0.062 | -- | 0.82 |
| Copper | 1.1 | -- | 5.4 | 0.038 | -- | 1.8 | 0.059 | -- | 0.96 |
| Lead | 0.70 | -- | 0.15 | 0.024 | -- | 0.052 | 0.037 | -- | 0.027 |
| Manganese | 19 | -- | 76 | 0.66 | -- | 26 | 1.0 | -- | 14 |
| Mercury | 0.0015 | -- | 0.0058 | 0.000052 | -- | 0.0020 | 0.000081 | -- | 0.0010 |
| Molybdenum | 0.58 | -- | 2.3 | 0.020 | -- | 0.79 | 0.031 | -- | 0.41 |
| Nickel | 2.9 | -- | 1.1 | 0.098 | -- | 0.36 | 0.15 | -- | 0.19 |
| Selenium | 0.19 | -- | 0.76 | 0.0066 | -- | 0.26 | 0.010 | -- | 0.14 |
| Thallium | 0.037 | -- | 0.15 | 0.0013 | -- | 0.050 | 0.0020 | -- | 0.026 |
| Tin | 3.8 | -- | 15 | 0.13 | -- | 5.1 | 0.20 | -- | 2.7 |
| Vanadium | 4.7 | -- | 0.0 | 0.16 | -- | 0.0 | 0.25 | -- | 0.0 |
| Zinc | 6.1 | -- | 27 | 0.21 | -- | 9.3 | 0.32 | -- | 4.8 |
| Dioxins/Furans | | | | | | | | | |
| Total Avian Dioxin TEQ | 9.36E-07 | -- | 8.73E-06 | 3.19E-08 | -- | 2.98E-06 | 4.99E-08 | -- | 1.55E-06 |
| Total Mammalian Dioxin TEQ | 7.60E-07 | -- | 7.10E-06 | 2.59E-08 | -- | 2.42E-06 | 4.05E-08 | -- | 1.26E-06 |

Table U.A5-4
Dose Estimates for Wildlife in Background Areas
95% Upper Tolerance Level Concentration

CPEC = Constituent of Potential Ecological Concern

mg/kg-d = milligrams per kilogram per day

TEQ = Toxic Equivalent

"--" = No Data; CPEC was not analyzed in the samples.

An intake value a.) CPEC was not detected in the onsite media. Offsite detections resulted in inclusion of the compound if the frequency of detection was >5%.

b.) Compound was not a CPEC in the matrix.

c.) No bioaccumulation, resulting in intake = 0 (prey and vegetation only)

^a For non-burrowing receptors, surface soil (0-0.5 feet below ground surface) exposure point concentrations were used.

Dose Calculations:

Soil Intake (mg/kg-bw/day) = (Soil EPC (mg/kg dw) * SIR (kg/day dw))

Prey Intake (mg/kg-bw/day) = (Soil EPC (mg/kg dw) * BAF * FIR (kg/day dw) * fp)

Water intake (mg/kg-bw/day) = (Surface water EPC (mg/L) * WIR (L/kg-bw/day))

Where:

BAF = Bioaccumulation Factor kg = kilograms.

dw = Dry weight. kg/day = kilogram per day.

EPC = Exposure point concentration mg/kg = Milligrams per kilogram.

FIR = Food ingestion rate mg/kg-bw/day = Milligrams per kilogram body weight per day.

fp = fraction of prey in diet. mg/L = Milligrams per liter

SIR = Soil ingestion rate (i.e., FIR * fs) L/kg-bw/day = liters per kilogram body weight per day

Table U.A5-5
Risk Estimates for Wildlife in Background Areas
Based on 95% Upper Tolerance Level Concentrations

| CPEC | Terrestrial Invertivorous Mammal | | Terrestrial Herbivorous Mammal | | Terrestrial Carnivorous Mammal | | Terrestrial Invertivorous Bird | | Terrestrial Herbivorous Bird | | Terrestrial Carnivorous Bird | |
|----------------------------|----------------------------------|---------|--------------------------------|---------|--------------------------------|---------|--------------------------------|---------|------------------------------|---------|------------------------------|---------|
| | Ornate Shrew | | California Vole | | Striped Skunk | | Western Meadowlark | | Western Meadowlark | | American Kestrel | |
| | Low HQ | High HQ | Low HQ | High HQ | Low HQ | High HQ | Low HQ | High HQ | Low HQ | High HQ | Low HQ | High HQ |
| Inorganics | | | | | | | | | | | | |
| Barium | 0.09 | 0.2 | 0.04 | 0.1 | 0.005 | 0.01 | 0.3 | 0.5 | 0.4 | 0.7 | 0.009 | 0.02 |
| Beryllium | 0.07 | 0.08 | 0.1 | 0.2 | 0.006 | 0.008 | -- | -- | -- | -- | -- | -- |
| Cadmium | 0.8 | 8 | 0.03 | 0.3 | 0.004 | 0.04 | 1 | 5 | 0.08 | 0.3 | 0.02 | 0.07 |
| Chromium | 0.6 | 2 | 0.05 | 0.2 | 0.03 | 0.1 | 2 | 2 | 0.8 | 0.8 | 0.3 | 0.3 |
| Cobalt | 0.07 | 0.2 | 0.005 | 0.01 | 0.005 | 0.01 | 0.1 | 0.2 | 0.06 | 0.09 | 0.01 | 0.02 |
| Copper | 0.4 | 0.6 | 0.1 | 0.2 | 0.05 | 0.09 | 0.3 | 0.9 | 0.2 | 0.7 | 0.2 | 0.6 |
| Lead | 0.2 | 0.4 | 0.02 | 0.05 | 0.02 | 0.03 | 0.7 | 1 | 0.2 | 0.5 | 0.2 | 0.4 |
| Manganese | 0.1 | 0.4 | 0.04 | 0.1 | 0.009 | 0.03 | 0.05 | 0.1 | 0.05 | 0.1 | 0.005 | 0.01 |
| Mercury | 0.02 | 0.3 | 0.002 | 0.03 | 0.00004 | 0.0006 | 0.5 | 2 | 0.1 | 0.5 | 0.002 | 0.008 |
| Molybdenum | 0.3 | 3 | 3 | 27 | 0.2 | 2 | 0.02 | 0.3 | 0.4 | 4 | 0.07 | 0.8 |
| Nickel | 0.5 | 1 | 0.1 | 0.3 | 0.1 | 0.2 | 0.08 | 0.2 | 0.1 | 0.3 | 0.05 | 0.2 |
| Selenium | 0.6 | 15 | 0.3 | 6 | 0.04 | 1 | 0.9 | 4 | 0.8 | 3 | 0.2 | 0.9 |
| Thallium | 0.05 | 0.1 | 0.002 | 0.006 | 0.003 | 0.01 | 0.02 | 0.2 | 0.006 | 0.06 | 0.004 | 0.04 |
| Tin | 0.1 | 0.2 | 0.06 | 0.09 | 0.006 | 0.01 | 0.3 | 0.8 | 0.4 | 0.9 | 0.02 | 0.04 |
| Vanadium | 0.5 | 0.9 | 0.04 | 0.09 | 0.04 | 0.07 | 5 | 11 | 4 | 8 | 0.5 | 1 |
| Zinc | 0.3 | 12 | 0.03 | 1 | 0.01 | 0.5 | 0.8 | 8 | 0.1 | 1 | 0.1 | 1 |
| Dioxins/Furans | | | | | | | | | | | | |
| Total Avian Dioxin TEQ | -- | -- | -- | -- | -- | -- | 0.2 | 2 | 0.004 | 0.04 | 0.02 | 0.2 |
| Total Mammalian Dioxin TEQ | 2 | 17 | 0.006 | 0.06 | 0.04 | 0.4 | -- | -- | -- | -- | -- | -- |

CPEC = Constituent of Potential Ecological Concern

High HQ = Hazard Quotient based on NOAEL-based toxicity reference value.

HQ = Hazard Quotient (unitless) = Sum of Intakes (mg/kg-d) / Toxicity Reference Value (mg/kg-d)

Low HQ = Hazard Quotient based on LOAEL-based toxicity reference value.

TEQ = Toxic Equivalent

-- = No HQ calculated because no toxicity reference value available or compound was not a CPEC in the matrix.

HQ > 1

Table U.A5-5
Risk Estimates for Wildlife in Background Areas
Based on 95% Upper Tolerance Level Concentrations

| CPEC | Aquatic Invertivorous Bird (Wading Bird) | | Aquatic Invertivorous Bird (Duck) | | Aquatic Invertivorous Mammal | |
|----------------------------|---|-----------|--------------------------------------|----------|---------------------------------|----------|
| | Killdeer | | Mallard | | Raccoon | |
| | Low HQ | High HQ | Low HQ | High HQ | Low HQ | High HQ |
| Inorganics | | | | | | |
| Barium | 1 | 2 | 0.3 | 0.7 | 0.06 | 0.1 |
| Beryllium | -- | -- | -- | -- | 0.06 | 0.08 |
| Cadmium | 0.4 | 1 | 0.1 | 0.4 | 0.05 | 0.5 |
| Chromium | 3 | 3 | 0.6 | 0.6 | 0.09 | 0.4 |
| Cobalt | 0.5 | 0.8 | 0.1 | 0.2 | 0.05 | 0.1 |
| Copper | 0.5 | 2 | 0.2 | 0.5 | 0.1 | 0.2 |
| Lead | 0.3 | 0.5 | 0.02 | 0.05 | 0.007 | 0.01 |
| Manganese | 0.3 | 0.5 | 0.07 | 0.1 | 0.1 | 0.3 |
| Mercury | 0.04 | 0.2 | 0.01 | 0.05 | 0.0003 | 0.004 |
| Molybdenum | 0.08 | 0.8 | 0.02 | 0.2 | 0.2 | 2 |
| Nickel | 0.2 | 0.6 | 0.02 | 0.07 | 0.1 | 0.2 |
| Selenium | 1 | 4 | 0.3 | 1 | 0.1 | 3 |
| Thallium | 0.05 | 0.5 | 0.01 | 0.1 | 0.02 | 0.06 |
| Tin | 1 | 3 | 0.3 | 0.8 | 0.08 | 0.1 |
| Vanadium | 7 | 14 | 0.2 | 0.5 | 0.03 | 0.06 |
| Zinc | 0.2 | 2 | 0.06 | 0.6 | 0.01 | 0.5 |
| Dioxins/Furans | | | | | | |
| Total Avian Dioxin TEQ | 0.07 | 0.7 | 0.02 | 0.2 | -- | -- |
| Total Mammalian Dioxin TEQ | -- | -- | -- | -- | 0.1 | 1 |

CPEC = Constituent of Potential Ecological Concern

High HQ = Hazard Quotient based on NOAEL-based toxicity reference value.

HQ = Hazard Quotient (unitless)

HQ = Sum of Intakes (mg/kg-d) / Toxicity Reference Value (mg/kg-d)

Low HQ = Hazard Quotient based on LOAEL-based toxicity reference value.

TEQ = Toxic Equivalent

-- = No HQ calculated because no toxicity reference value available or compound was not a CPEC in the matrix.

HQ > 1

Table U.A5-6
Risk Estimates for Plants and Soil Invertebrates in Sitewide Terrestrial Areas
Based on Maximum Concentrations

| CPEC | Sitewide with Pond 18 and Pond A-5 | | | | |
|--|-------------------------------------|---|------------------|---|------------------|
| | Soil ^a EPC (mg/kg) | Plant Toxicity Value ^b (mg/kg) | HQ (unitless) | Soil Invertebrate Toxicity Value ^b (mg/kg) | HQ (unitless) |
| Inorganics | | | | | |
| Barium | 12000 | 500 | 24 | 330 | 36 |
| Beryllium | 0.84 | 10 | 0.08 | 40 | 0.02 |
| Cadmium | 34 | 32 | 1 | 140 | 0.2 |
| Chromium | 670 | 1.0 | 670 | 0.40 | 1675 |
| Cobalt | 160 | 13 | 12 | 50 | 3 |
| Copper | 480 | 70 | 7 | 80 | 6 |
| Total Cyanide | 9.8 | -- | -- | 0.90 | 11 |
| Lead | 970 | 120 | 8 | 1700 | 0.6 |
| Manganese | 1500 | 220 | 7 | 450 | 3 |
| Mercury | 0.43 | 0.30 | 1 | 0.10 | 4 |
| Molybdenum | 15 | 2.0 | 8 | 40 | 0.4 |
| Nickel | 240 | 38 | 6 | 280 | 0.9 |
| Selenium | 15 | 1.0 | 15 | 70 | 0.2 |
| Thallium | 2.1 | 1.0 | 2 | 1.0 | 2 |
| Tin | 77 | 50 | 2 | 50 | 2 |
| Vanadium | 51 | 2.0 | 26 | 1.6 | 32 |
| Zinc | 710 | 50 | 14 | 100 | 7 |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.084 | -- | -- | -- | -- |
| Dalapon | 0.28 | -- | -- | -- | -- |
| MCPA | 7.0 | -- | -- | -- | -- |
| MCPP | 1400 | -- | -- | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthene | 0.71 | 20 | 0.04 | 5.0 | 0.1 |
| Anthracene | 0.33 | 10 | 0.03 | 5.0 | 0.07 |
| Benzo(a)anthracene | 0.19 | 1.2 | 0.2 | 1.0 | 0.2 |
| Benzo(a)pyrene | 0.51 | 1.2 | 0.4 | 1.0 | 0.5 |
| Benzo(b)fluoranthene | 0.057 | 1.2 | 0.05 | 1.0 | 0.06 |
| Benzo(g,h,i)perylene | 0.21 | 1.2 | 0.2 | 1.0 | 0.2 |
| Benzo(k)fluoranthene | 0.55 | 1.2 | 0.5 | 1.0 | 0.6 |
| Chrysene | 0.95 | 1.2 | 0.8 | 1.0 | 1 |
| Fluoranthene | 0.57 | 1.2 | 0.5 | 1.0 | 0.6 |
| Fluorene | 2.2 | 10 | 0.2 | 5.0 | 0.4 |
| Indeno(1,2,3-c,d)pyrene | 0.045 | 1.2 | 0.04 | 1.0 | 0.05 |
| Naphthalene | 1.2 | 10 | 0.1 | 5.0 | 0.2 |
| Pyrene | 0.78 | 1.2 | 0.7 | 10 | 0.08 |
| Total LMW PAH | 4.4 | 10 | 0.4 | 5.0 | 0.9 |
| Total HMW PAH | 3.9 | 1.2 | 3 | 1.0 | 4 |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 3.7 | 40 | 0.09 | 1.0 | 4 |
| Sum of PCB Congeners | 2.1 | 40 | 0.05 | 1.0 | 2 |

Table U.A5-6
Risk Estimates for Plants and Soil Invertebrates in Sitewide Terrestrial Areas
Based on Maximum Concentrations

| CPEC | Sitewide with Pond 18 and Pond A-5 | | | | |
|---|-------------------------------------|---|------------------|---|------------------|
| | Soil ^a EPC (mg/kg) | Plant Toxicity Value ^b (mg/kg) | HQ (unitless) | Soil Invertebrate Toxicity Value ^b (mg/kg) | HQ (unitless) |
| Pesticides | | | | | |
| 4,4'-DDE | 0.031 | 0.90 | 0.03 | 0.10 | 0.3 |
| 4,4'-DDT | 3.1 | 0.90 | 3 | 0.10 | 31 |
| Total DDT | No Data | -- | 3 | -- | 31 |
| Hexachlorobenzene | 3.1 | 100 | 0.03 | 2.0 | 2 |
| Methoxychlor | 0.059 | -- | -- | -- | -- |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Bis(2-ethylhexyl)phthalate | 29 | 200 | 0.1 | 200 | 0.1 |
| Diethylphthalate | 20 | 100 | 0.2 | 200 | 0.1 |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1,1-Trichloroethane | 1.5 | -- | -- | 5.0 | 0.3 |
| 1,1-Dichloroethane | 0.46 | -- | -- | 5.0 | 0.09 |
| 1,1-Dichloroethylene | 0.019 | 100 | 0.0002 | 5.0 | 0.004 |
| 1,2-Dichloroethene | 0.11 | -- | -- | 5.0 | 0.02 |
| Acetone | 1.1 | -- | -- | -- | -- |
| Acetonitrile | 0.19 | -- | -- | -- | -- |
| Acrolein | 0.017 | -- | -- | -- | -- |
| Benzene | 0.027 | -- | -- | 0.50 | 0.05 |
| Carbon disulfide | 0.10 | -- | -- | -- | -- |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | No Data | -- | -- | -- | -- |
| Isopropanol | 0.087 | 10 | 0.009 | -- | -- |
| Methyl ethyl ketone | 0.36 | -- | -- | -- | -- |
| Methylene chloride | 0.26 | -- | -- | 2.0 | 0.1 |
| Propanal | 1.3 | -- | -- | -- | -- |
| Tert-Butyl alcohol (TBA) | 0.040 | -- | -- | -- | -- |
| Tetrachloroethylene | 3.4 | 100 | 0.03 | 0.20 | 17 |
| Tetrahydrofuran | 0.0081 | -- | -- | 4.0 | 0.002 |
| Toluene | 0.0050 | 200 | 0.00003 | 3.0 | 0.002 |
| Trichloroethylene | 24 | -- | -- | 0.010 | 2400 |

Table U.A5-6
Risk Estimates for Plants and Soil Invertebrates in Sitewide Terrestrial Areas
Based on Maximum Concentrations

| CPEC | Sitewide Without Ponds | | | | |
|--|-------------------------------------|---|------------------|---|------------------|
| | Soil ^a EPC (mg/kg) | Plant Toxicity Value ^b (mg/kg) | HQ (unitless) | Soil Invertebrate Toxicity Value ^b (mg/kg) | HQ (unitless) |
| Inorganics | | | | | |
| Barium | 12000 | 500 | 24 | 330 | 36 |
| Beryllium | 0.84 | 10 | 0.08 | 40 | 0.02 |
| Cadmium | 34 | 32 | 1 | 140 | 0.2 |
| Chromium | 670 | 1.0 | 670 | 0.40 | 1675 |
| Cobalt | 160 | 13 | 12 | 50 | 3 |
| Copper | 480 | 70 | 7 | 80 | 6 |
| Total Cyanide | 9.8 | -- | -- | 0.90 | 11 |
| Lead | 970 | 120 | 8 | 1700 | 0.6 |
| Manganese | 1500 | 220 | 7 | 450 | 3 |
| Mercury | 0.43 | 0.30 | 1 | 0.10 | 4 |
| Molybdenum | 11 | 2.0 | 6 | 40 | 0.3 |
| Nickel | 240 | 38 | 6 | 280 | 0.9 |
| Selenium | 11 | 1.0 | 11 | 70 | 0.2 |
| Thallium | 2.1 | 1.0 | 2 | 1.0 | 2 |
| Tin | 77 | 50 | 2 | 50 | 2 |
| Vanadium | 51 | 2.0 | 26 | 1.6 | 32 |
| Zinc | 710 | 50 | 14 | 100 | 7 |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.084 | -- | -- | -- | -- |
| Dalapon | 0.28 | -- | -- | -- | -- |
| MCPA | 7.0 | -- | -- | -- | -- |
| MCPP | 1400 | -- | -- | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthene | 0.71 | 20 | 0.04 | 5.0 | 0.1 |
| Anthracene | 0.33 | 10 | 0.03 | 5.0 | 0.07 |
| Benzo(a)anthracene | 0.19 | 1.2 | 0.2 | 1.0 | 0.2 |
| Benzo(a)pyrene | 0.51 | 1.2 | 0.4 | 1.0 | 0.5 |
| Benzo(b)fluoranthene | 0.057 | 1.2 | 0.05 | 1.0 | 0.06 |
| Benzo(g,h,i)perylene | 0.21 | 1.2 | 0.2 | 1.0 | 0.2 |
| Benzo(k)fluoranthene | 0.55 | 1.2 | 0.5 | 1.0 | 0.6 |
| Chrysene | 0.95 | 1.2 | 0.8 | 1.0 | 1 |
| Fluoranthene | 0.57 | 1.2 | 0.5 | 1.0 | 0.6 |
| Fluorene | 2.2 | 10 | 0.2 | 5.0 | 0.4 |
| Indeno(1,2,3-c,d)pyrene | 0.045 | 1.2 | 0.04 | 1.0 | 0.05 |
| Naphthalene | 1.2 | 10 | 0.1 | 5.0 | 0.2 |
| Pyrene | 0.78 | 1.2 | 0.7 | 10 | 0.08 |
| Total LMW PAH | 4.4 | 10 | 0.4 | 5.0 | 0.9 |
| Total HMW PAH | 3.9 | 1.2 | 3 | 1.0 | 4 |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 3.7 | 40 | 0.09 | 1.0 | 4 |
| Sum of PCB Congeners | 2.1 | 40 | 0.05 | 1.0 | 2 |

Table U.A5-6
Risk Estimates for Plants and Soil Invertebrates in Sitewide Terrestrial Areas
Based on Maximum Concentrations

| CPEC | Sitewide Without Ponds | | | | |
|---|-------------------------------------|---|------------------|---|------------------|
| | Soil ^a EPC (mg/kg) | Plant Toxicity Value ^b (mg/kg) | HQ (unitless) | Soil Invertebrate Toxicity Value ^b (mg/kg) | HQ (unitless) |
| Pesticides | | | | | |
| 4,4'-DDE | 0.031 | 0.90 | 0.03 | 0.10 | 0.3 |
| 4,4'-DDT | 3.1 | 0.90 | 3 | 0.10 | 31 |
| Total DDT | No Data | -- | 3 | -- | 31 |
| Hexachlorobenzene | 3.1 | 100 | 0.03 | 2.0 | 2 |
| Methoxychlor | 0.059 | -- | -- | -- | -- |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Bis(2-ethylhexyl)phthalate | 29 | 200 | 0.1 | 200 | 0.1 |
| Diethylphthalate | 20 | 100 | 0.2 | 200 | 0.1 |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1,1-Trichloroethane | 1.5 | -- | -- | 5.0 | 0.3 |
| 1,1-Dichloroethane | 0.46 | -- | -- | 5.0 | 0.09 |
| 1,1-Dichloroethylene | 0.019 | 100 | 0.0002 | 5.0 | 0.004 |
| 1,2-Dichloroethene | 0.11 | -- | -- | 5.0 | 0.02 |
| Acetone | 1.1 | -- | -- | -- | -- |
| Acetonitrile | 0.19 | -- | -- | -- | -- |
| Acrolein | 0.017 | -- | -- | -- | -- |
| Benzene | 0.0051 | -- | -- | 0.50 | 0.01 |
| Carbon disulfide | 0.10 | -- | -- | -- | -- |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | No Data | -- | -- | -- | -- |
| Isopropanol | 0.087 | 10 | 0.009 | -- | -- |
| Methyl ethyl ketone | 0.36 | -- | -- | -- | -- |
| Methylene chloride | 0.26 | -- | -- | 2.0 | 0.1 |
| Propanal | 1.3 | -- | -- | -- | -- |
| Tert-Butyl alcohol (TBA) | 0.040 | -- | -- | -- | -- |
| Tetrachloroethylene | 3.4 | 100 | 0.03 | 0.20 | 17 |
| Tetrahydrofuran | 0.0081 | -- | -- | 4.0 | 0.002 |
| Toluene | 0.0050 | 200 | 0.00003 | 3.0 | 0.002 |
| Trichloroethylene | 24 | -- | -- | 0.010 | 2400 |

Table U.A5-6
Risk Estimates for Plants and Soil Invertebrates in Sitewide Terrestrial Areas
Based on Maximum Concentrations

CPEC = Constituent of Potential Ecological Concern

EPC = Exposure Point Concentration

HMW = High Molecular Weight

HQ = Hazard Quotient (unitless)

LMW = Low Molecular Weight

Total DDT = Sum of DDD, DDE, DDT

Total HMW PAH = Sum of the HMW PAH

Total LMW PAH = Sum of the LMW PAH

NA = Not Applicable

No Data = CPEC was not analyzed in the sample

"--" = in Screening Value column, compound not a CPEC in the matrix, or Screening Value not available. In HQ column, HQ not calculated.

A soil value of 0.0 indicates CPEC was not detected, or compound was not a CPEC in the matrix.

Soil is surface values (0-0.5 ft.)

mg/kg, dw = milligrams per kilogram, dry weight

HQ > 1

^aSoil is surface values (0-0.5 feet below ground surface [bgs]).

^b From Table U5-1 of the ERA (Appendix U) and Attachment 2.

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

| CPEC | RCRA Canyon | | | | |
|--|-------------------------------------|---|------------------|---|------------------|
| | Soil ^a EPC (mg/kg) | Plant Toxicity Value ^b (mg/kg) | HQ (unitless) | Soil Invertebrate Toxicity Value ^b (mg/kg) | HQ (unitless) |
| Inorganics | | | | | |
| Barium | 12000 | 500 | 24 | 330 | 36 |
| Beryllium | 0.74 | 10 | 0.08 | 40 | 0.02 |
| Cadmium | 24 | 32 | 0.8 | 140 | 0.2 |
| Chromium | 470 | 1 | 470 | 0.4 | 1175 |
| Cobalt | 40 | 13 | 12 | 50 | 0.8 |
| Copper | 320 | 70 | 5 | 80 | 4 |
| Total Cyanide | No Data | -- | -- | 0.9 | -- |
| Lead | 140 | 120 | 1 | 1700 | 0.08 |
| Manganese | 1500 | 220 | 23 | 450 | 3 |
| Mercury | 0.39 | 0.3 | 1 | 0.1 | 4 |
| Molybdenum | 4.8 | 2 | 8 | 40 | 0.1 |
| Nickel | 170 | 38 | 4 | 280 | 0.6 |
| Selenium | 5.6 | 1 | 6 | 70 | 0.08 |
| Thallium | 0.64 | 1 | 1 | 1 | 0.6 |
| Tin | 77 | 50 | 2 | 50 | 2 |
| Vanadium | 46 | 2 | 23 | 2 | 29 |
| Zinc | 710 | 50 | 14 | 100 | 7 |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | No Data | -- | -- | -- | -- |
| Dalapon | No Data | -- | -- | -- | -- |
| MCPA | No Data | -- | -- | -- | -- |
| MCPP | No Data | -- | -- | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthene | 0.079 | 20 | 0.004 | 5 | 0 |
| Anthracene | 0.013 | 10 | 0.001 | 5 | 0.003 |
| Benzo(a)anthracene | 0.010 | 1 | 0.008 | 1 | 0 |
| Benzo(a)pyrene | 0.067 | 1 | 0.06 | 1 | 0.07 |
| Benzo(b)fluoranthene | 0.012 | 1 | 0.01 | 1 | 0.004 |
| Benzo(g,h,i)perylene | 0.043 | 1 | 0.04 | 1 | 0.04 |
| Benzo(k)fluoranthene | 0.0094 | 1 | 0.008 | 1 | 0.009 |
| Chrysene | 0.034 | 1 | 0.03 | 1 | 0.02 |
| Fluoranthene | 0.014 | 1 | 0.01 | 1 | 0.002 |
| Fluorene | 0.10 | 10 | 0.01 | 5 | 0 |
| Indeno(1,2,3-c,d)pyrene | 0.010 | 1 | 0.008 | 1 | 0.005 |
| Naphthalene | 0.017 | 10 | 0.002 | 5 | 0.003 |
| Pyrene | 0.083 | 1 | 0.07 | 10 | 0.008 |
| Total LMW PAH | 0.21 | 10 | 0.02 | 5 | 0.006 |
| Total HMW PAH | 0.28 | 1 | 0.2 | 1 | 0.2 |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.096 | 40 | 0.002 | 1 | 0.1 |
| Sum of PCB Congeners | 0.012 | 40 | 0.0003 | 1 | 0.01 |
| Pesticides | | | | | |
| 4,4'-DDE | 0.0047 | 0.9 | 0.005 | 0.1 | 0.05 |
| 4,4'-DDT | 0.0061 | 0.9 | 0.007 | 0.1 | 0.06 |
| Total DDT | No Data | -- | 0.01 | -- | -- |
| Hexachlorobenzene | 0.0025 | 100 | 0.00003 | 2 | 0.001 |
| Methoxychlor | 0.0071 | -- | -- | -- | -- |

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

| CPEC | RCRA Canyon | | | | |
|---|-------------------------------------|---|------------------|---|------------------|
| | Soil ^a EPC (mg/kg) | Plant Toxicity Value ^b (mg/kg) | HQ (unitless) | Soil Invertebrate Toxicity Value ^b (mg/kg) | HQ (unitless) |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Bis(2-ethylhexyl)phthalate | 0.34 | 200 | 0.002 | 200 | 0.002 |
| Diethylphthalate | 0.91 | 100 | 0.009 | 200 | 0.001 |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1,1-Trichloroethane | 0.0 | -- | -- | 5 | 0 |
| 1,1-Dichloroethane | 0.0019 | -- | -- | 5 | 0 |
| 1,1-Dichloroethylene | 0.0 | 100 | 0 | 5 | 0 |
| 1,2-Dichloroethene | 0.0020 | -- | -- | 5 | 0 |
| Acetone | No Data | -- | -- | -- | -- |
| Acetonitrile | No Data | -- | -- | -- | -- |
| Acrolein | No Data | -- | -- | -- | -- |
| Benzene | 0.0018 | -- | -- | 0.5 | 0.004 |
| Carbon disulfide | 0.11 | -- | -- | -- | -- |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0 | -- | -- | -- | -- |
| Isopropanol | No Data | 10 | -- | -- | -- |
| Methyl ethyl ketone | No Data | -- | -- | -- | -- |
| Methylene chloride | 0.0019 | -- | -- | 2 | 0.0008 |
| Propanal | 0.071 | -- | -- | -- | -- |
| Tert-Butyl alcohol (TBA) | No Data | -- | -- | -- | -- |
| Tetrachloroethylene | 0.0 | 100 | 0 | 0.2 | 0 |
| Tetrahydrofuran | 0.0057 | -- | -- | 4 | 0.001 |
| Toluene | 0.0026 | 200 | 0.00001 | 3 | 0 |
| Trichloroethylene | 0.013 | -- | -- | 0.01 | 0 |
| Area CPEC | | | | | |
| Herbicides | | | | | |
| 2,4,5-TP (Silvex) | No Data | -- | -- | -- | -- |
| 2-sec-Butyl-4,6-dinitrophenol (Dinoseb) | No Data | -- | -- | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthylene | No Data | 10 | -- | 5 | -- |
| Pesticides | | | | | |
| 4,4'-DDD | No Data | 0.9 | -- | 0.1 | -- |
| Aldrin | No Data | 1 | -- | 0.5 | -- |
| alpha-BHC | No Data | 10 | -- | 0.03 | -- |
| Chlordane, gamma | No Data | 0.2 | -- | 0.04 | -- |
| delta-BHC | No Data | 10 | -- | 0.03 | -- |
| Dieldrin | 0.0037 | 1 | 0.004 | 0.5 | 0.007 |
| Endosulfan I | 0.0030 | 10 | 0.0003 | 0.05 | 0.06 |
| Endrin | No Data | -- | -- | 0.01 | -- |
| Heptachlor epoxide | No Data | 1 | -- | 0.007 | -- |
| Mirex | No Data | -- | -- | -- | -- |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Benzoic Acid | No Data | -- | -- | -- | -- |
| Di-n-butylphthalate | 0.43 | 200 | 0.002 | 200 | 0.002 |
| N-Nitrosodimethylamine | No Data | -- | -- | 20 | -- |
| N-Nitrosodipropylamine | No Data | -- | -- | 20 | -- |
| N-Nitrosomethylamine | No Data | -- | -- | 20 | -- |
| N-Nitrosopyrrolidine | No Data | -- | -- | -- | -- |

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

| CPEC | Liquid Treatment Area | | | | |
|--|-------------------------------------|---|------------------|---|------------------|
| | Soil ^a EPC (mg/kg) | Plant Toxicity Value ^b (mg/kg) | HQ (unitless) | Soil Invertebrate Toxicity Value ^b (mg/kg) | HQ (unitless) |
| Inorganics | | | | | |
| Barium | 330 | 500 | 0.7 | 330 | 1 |
| Beryllium | 0.62 | 10 | 0.06 | 40 | 0.02 |
| Cadmium | 34 | 32 | 1 | 140 | 0.2 |
| Chromium | 68 | 1 | 68 | 0.4 | 170 |
| Cobalt | 18 | 13 | 1 | 50 | 0.4 |
| Copper | 96 | 70 | 1 | 80 | 1 |
| Total Cyanide | 9.8 | -- | -- | 0.9 | 11 |
| Lead | 41 | 120 | 0.3 | 1700 | 0.02 |
| Manganese | 450 | 220 | 6 | 450 | 1 |
| Mercury | 0.065 | 0.3 | 0.2 | 0.1 | 0.7 |
| Molybdenum | 6.9 | 2 | 4 | 40 | 0.2 |
| Nickel | 49 | 38 | 2 | 280 | 0.2 |
| Selenium | 1.7 | 1 | 3 | 70 | 0.02 |
| Thallium | 0.49 | 1 | 1 | 1 | 0.5 |
| Tin | 72 | 50 | 1 | 50 | 1 |
| Vanadium | 46 | 2 | 70 | 2 | 29 |
| Zinc | 280 | 50 | 6 | 100 | 3 |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.076 | -- | -- | -- | -- |
| Dalapon | 0.068 | -- | -- | -- | -- |
| MCPA | 19 | -- | -- | -- | -- |
| MCPP | 1400 | -- | -- | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthene | 0.051 | 20 | 0.003 | 5 | 0.01 |
| Anthracene | 0.0089 | 10 | 0.0009 | 5 | 0.002 |
| Benzo(a)anthracene | 0.0067 | 1 | 0.006 | 1 | 0.007 |
| Benzo(a)pyrene | 0.0078 | 1 | 0.007 | 1 | 0.008 |
| Benzo(b)fluoranthene | 0.0093 | 1 | 0.008 | 1 | 0.009 |
| Benzo(g,h,i)perylene | 0.0034 | 1 | 0.003 | 1 | 0.003 |
| Benzo(k)fluoranthene | 0.0045 | 1 | 0.004 | 1 | 0.005 |
| Chrysene | 0.032 | 1 | 0.03 | 1 | 0.03 |
| Fluoranthene | 0.011 | 1 | 0.009 | 1 | 0.01 |
| Fluorene | 0.0 | 10 | 0 | 5 | 0 |
| Indeno(1,2,3-c,d)pyrene | 0.0027 | 1 | 0.002 | 1 | 0.003 |
| Naphthalene | 0.0078 | 10 | 0.0008 | 5 | 0.002 |
| Pyrene | 0.031 | 1 | 0.03 | 10 | 0.003 |
| Total LMW PAH | 0.068 | 10 | 0.007 | 5 | 0.01 |
| Total HMW PAH | 0.11 | 1 | 0.09 | 1 | 0.1 |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.0 | 40 | 0 | 1 | 0 |
| Sum of PCB Congeners | 0.0069 | 40 | 0.0002 | 1 | 0.007 |
| Pesticides | | | | | |
| 4,4'-DDE | 0.0022 | 0.9 | 0.002 | 0.1 | 0.02 |
| 4,4'-DDT | 3.1 | 0.9 | 3 | 0.1 | 31 |
| Total DDT | No Data | -- | 3 | -- | -- |
| Hexachlorobenzene | 3.1 | 100 | 0.03 | 2 | 2 |
| Methoxychlor | 0.0 | -- | -- | -- | -- |

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

| CPEC | Liquid Treatment Area | | | | |
|---|-------------------------------------|---|------------------|---|------------------|
| | Soil ^a EPC (mg/kg) | Plant Toxicity Value ^b (mg/kg) | HQ (unitless) | Soil Invertebrate Toxicity Value ^b (mg/kg) | HQ (unitless) |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Bis(2-ethylhexyl)phthalate | 1.7 | 200 | 0.009 | 200 | 0.009 |
| Diethylphthalate | 0.37 | 100 | 0.004 | 200 | 0 |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1,1-Trichloroethane | 0.0017 | -- | -- | 5 | 0 |
| 1,1-Dichloroethane | 0.0025 | -- | -- | 5 | 0.0005 |
| 1,1-Dichloroethylene | 0.037 | 100 | 0.0004 | 5 | 0 |
| 1,2-Dichloroethene | 0.016 | -- | -- | 5 | 0.003 |
| Acetone | 0.20 | -- | -- | -- | -- |
| Acetonitrile | 0.19 | -- | -- | -- | -- |
| Acrolein | 0.0042 | -- | -- | -- | -- |
| Benzene | 0.0044 | -- | -- | 0.5 | 0.005 |
| Carbon disulfide | 0.011 | -- | -- | -- | -- |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 1.4 | -- | -- | -- | -- |
| Isopropanol | 0.0 | 10 | 0 | -- | -- |
| Methyl ethyl ketone | 0.0082 | -- | -- | -- | -- |
| Methylene chloride | 0.0 | -- | -- | 2 | 0 |
| Propanal | 0.0 | -- | -- | -- | -- |
| Tert-Butyl alcohol (TBA) | 0.060 | -- | -- | -- | -- |
| Tetrachloroethylene | 0.067 | 100 | 0.0007 | 0.2 | 0.2 |
| Tetrahydrofuran | 0.15 | -- | -- | 4 | 0 |
| Toluene | 0.0032 | 200 | 0.00002 | 3 | 0.001 |
| Trichloroethylene | 0.0038 | -- | -- | 0.01 | 0.4 |
| Area CPEC | | | | | |
| Herbicides | | | | | |
| 2,4,5-TP (Silvex) | No Data | -- | -- | -- | -- |
| 2-sec-Butyl-4,6-dinitrophenol (Dinoseb) | 0.057 | -- | -- | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthylene | No Data | 10 | -- | 5 | -- |
| Pesticides | | | | | |
| 4,4'-DDD | No Data | 0.9 | -- | 0.1 | -- |
| Aldrin | No Data | 1 | -- | 0.5 | -- |
| alpha-BHC | No Data | 10 | -- | 0.03 | -- |
| Chlordane, gamma | No Data | 0.2 | -- | 0.04 | -- |
| delta-BHC | No Data | 10 | -- | 0.03 | -- |
| Dieldrin | No Data | 1 | -- | 0.5 | -- |
| Endosulfan I | No Data | 10 | -- | 0.05 | -- |
| Endrin | No Data | -- | -- | 0.01 | -- |
| Heptachlor epoxide | No Data | 1 | -- | 0.007 | -- |
| Mirex | 0.58 | -- | -- | -- | -- |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Benzoic Acid | No Data | -- | -- | -- | -- |
| Di-n-butylphthalate | No Data | 200 | -- | 200 | -- |
| N-Nitrosodimethylamine | No Data | -- | -- | 20 | -- |
| N-Nitrosodipropylamine | No Data | -- | -- | 20 | -- |
| N-Nitrosomethylamine | No Data | -- | -- | 20 | -- |
| N-Nitrosopyrrolidine | No Data | -- | -- | -- | -- |

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

| CPEC | West Canyon Spray Area | | | | |
|--|-------------------------------------|---|------------------|---|------------------|
| | Soil ^a EPC (mg/kg) | Plant Toxicity Value ^b (mg/kg) | HQ (unitless) | Soil Invertebrate Toxicity Value ^b (mg/kg) | HQ (unitless) |
| Inorganics | | | | | |
| Barium | 280 | 500 | 0.6 | 330 | 0.8 |
| Beryllium | 0.72 | 10 | 0.07 | 40 | 0.02 |
| Cadmium | 20 | 32 | 0.6 | 140 | 0.1 |
| Chromium | 670 | 1 | 670 | 0.4 | 1675 |
| Cobalt | 160 | 13 | 12 | 50 | 3 |
| Copper | 480 | 70 | 7 | 80 | 6 |
| Total Cyanide | No Data | -- | -- | 0.9 | -- |
| Lead | 60 | 120 | 0.5 | 1700 | 0.04 |
| Manganese | 1200 | 220 | 5 | 450 | 3 |
| Mercury | 0.092 | 0.3 | 0.3 | 0.1 | 0.9 |
| Molybdenum | 5.3 | 2 | 4 | 40 | 0.1 |
| Nickel | 240 | 38 | 6 | 280 | 0.9 |
| Selenium | 1.7 | 1 | 2 | 70 | 0.02 |
| Thallium | 0.52 | 1 | 1 | 1 | 0.5 |
| Tin | 72 | 50 | 1 | 50 | 1 |
| Vanadium | 38 | 2 | 19 | 2 | 24 |
| Zinc | 450 | 50 | 9 | 100 | 5 |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | No Data | -- | -- | -- | -- |
| Dalapon | No Data | -- | -- | -- | -- |
| MCPA | No Data | -- | -- | -- | -- |
| MCPP | No Data | -- | -- | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthene | 0.0 | 20 | 0 | 5 | 0 |
| Anthracene | 0.0 | 10 | 0 | 5 | 0 |
| Benzo(a)anthracene | 0.0 | 1 | 0 | 1 | 0 |
| Benzo(a)pyrene | 0.0044 | 1 | 0.004 | 1 | 0 |
| Benzo(b)fluoranthene | 0.0043 | 1 | 0.004 | 1 | 0.004 |
| Benzo(g,h,i)perylene | 0.014 | 1 | 0.01 | 1 | 0.008 |
| Benzo(k)fluoranthene | 0.0059 | 1 | 0.005 | 1 | 0 |
| Chrysene | 0.0054 | 1 | 0.005 | 1 | 0.005 |
| Fluoranthene | 0.0 | 1 | 0 | 1 | 0 |
| Fluorene | 0.0 | 10 | 0 | 5 | 0 |
| Indeno(1,2,3-c,d)pyrene | 0.012 | 1 | 0.01 | 1 | 0.004 |
| Naphthalene | 0.010 | 10 | 0.001 | 5 | 0.002 |
| Pyrene | 0.0033 | 1 | 0.003 | 10 | 0.0003 |
| Total LMW PAH | 0.010 | 10 | 0.001 | 5 | 0.002 |
| Total HMW PAH | 0.049 | 1 | 0.04 | 1 | 0.02 |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.026 | 40 | 0.0007 | 1 | 0.03 |
| Sum of PCB Congeners | 0.0052 | 40 | 0.0001 | 1 | 0.005 |
| Pesticides | | | | | |
| 4,4'-DDE | 0.0020 | 0.9 | 0.002 | 0.1 | 0.02 |
| 4,4'-DDT | 0.0057 | 0.9 | 0.006 | 0.1 | 0.06 |
| Total DDT | No Data | -- | 0.009 | -- | -- |
| Hexachlorobenzene | 0.0 | 100 | 0 | 2 | 0 |
| Methoxychlor | 0.0024 | -- | -- | -- | -- |

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

| CPEC | West Canyon Spray Area | | | | | HQ (unitless) |
|---|-------------------------------------|---|------------------|---|------------------|---------------|
| | Soil ^a EPC (mg/kg) | Plant Toxicity Value ^b (mg/kg) | HQ (unitless) | Soil Invertebrate Toxicity Value ^b (mg/kg) | HQ (unitless) | |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | | |
| Bis(2-ethylhexyl)phthalate | 0.0 | 200 | 0 | 200 | 0 | |
| Diethylphthalate | 2.0 | 100 | 0.02 | 200 | 0.01 | |
| Volatile Organic Compounds (VOCs) | | | | | | |
| 1,1,1-Trichloroethane | 0.0 | -- | -- | 5 | 0 | |
| 1,1-Dichloroethane | 0.0 | -- | -- | 5 | 0 | |
| 1,1-Dichloroethylene | 0.0 | 100 | 0 | 5 | 0 | |
| 1,2-Dichloroethene | 0.0 | -- | -- | 5 | 0 | |
| Acetone | No Data | -- | -- | -- | -- | |
| Acetonitrile | No Data | -- | -- | -- | -- | |
| Acrolein | No Data | -- | -- | -- | -- | |
| Benzene | 0.0018 | -- | -- | 0.5 | 0.004 | |
| Carbon disulfide | 0.044 | -- | -- | -- | -- | |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0072 | -- | -- | -- | -- | |
| Isopropanol | No Data | 10 | -- | -- | -- | |
| Methyl ethyl ketone | No Data | -- | -- | -- | -- | |
| Methylene chloride | 0.0015 | -- | -- | 2 | 0.0006 | |
| Propanal | 0.25 | -- | -- | -- | -- | |
| Tert-Butyl alcohol (TBA) | No Data | -- | -- | -- | -- | |
| Tetrachloroethylene | 0.10 | 100 | 0.001 | 0.2 | 0.01 | |
| Tetrahydrofuran | 0.0081 | -- | -- | 4 | 0.002 | |
| Toluene | 0.0 | 200 | 0 | 3 | 0 | |
| Trichloroethylene | 0.0 | -- | -- | 0.01 | 0 | |
| Area CPEC | | | | | | |
| Herbicides | | | | | | |
| 2,4,5-TP (Silvex) | No Data | -- | -- | -- | -- | |
| 2-sec-Butyl-4,6-dinitrophenol (Dinoseb) | No Data | -- | -- | -- | -- | |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | | |
| Acenaphthylene | No Data | 10 | -- | 5 | -- | |
| Pesticides | | | | | | |
| 4,4'-DDD | No Data | 0.9 | -- | 0.1 | -- | |
| Aldrin | No Data | 1 | -- | 0.5 | -- | |
| alpha-BHC | No Data | 10 | -- | 0.03 | -- | |
| Chlordane, gamma | 0.0045 | 0.2 | 0.02 | 0.04 | 0.1 | |
| delta-BHC | 0.0035 | 10 | 0.0004 | 0.03 | 0.1 | |
| Dieldrin | No Data | 1 | -- | 0.5 | -- | |
| Endosulfan I | No Data | 10 | -- | 0.05 | -- | |
| Endrin | No Data | -- | -- | 0.01 | -- | |
| Heptachlor epoxide | No Data | 1 | -- | 0.007 | -- | |
| Mirex | No Data | -- | -- | -- | -- | |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | | |
| Benzoic Acid | No Data | -- | -- | -- | -- | |
| Di-n-butylphthalate | No Data | 200 | -- | 200 | -- | |
| N-Nitrosodimethylamine | No Data | -- | -- | 20 | -- | |
| N-Nitrosodipropylamine | No Data | -- | -- | 20 | -- | |
| N-Nitrosomethylamine | No Data | -- | -- | 20 | -- | |
| N-Nitrosopyrrolidine | No Data | -- | -- | -- | -- | |

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

| CPEC | Burial Trench Area | | | | |
|--|-------------------------------------|---|------------------|---|------------------|
| | Soil ^a EPC (mg/kg) | Plant Toxicity Value ^b (mg/kg) | HQ (unitless) | Soil Invertebrate Toxicity Value ^b (mg/kg) | HQ (unitless) |
| Inorganics | | | | | |
| Barium | 320 | 500 | 0.6 | 330 | 1 |
| Beryllium | 0.73 | 10 | 0.1 | 40 | 0.02 |
| Cadmium | 2.2 | 32 | 0.07 | 140 | 0.02 |
| Chromium | 48 | 1 | 270 | 0.4 | 120 |
| Cobalt | 8.2 | 13 | 0.6 | 50 | 0.2 |
| Copper | 23 | 70 | 1 | 80 | 0.3 |
| Total Cyanide | 0.0 | -- | -- | 0.9 | 0 |
| Lead | 14 | 120 | 0.1 | 1700 | 0.008 |
| Manganese | 670 | 220 | 3 | 450 | 1 |
| Mercury | 0.030 | 0.3 | 0.1 | 0.1 | 0.3 |
| Molybdenum | 5.1 | 2 | 3 | 40 | 0.1 |
| Nickel | 53 | 38 | 2 | 280 | 0.2 |
| Selenium | 11 | 1 | 11 | 70 | 0.2 |
| Thallium | 0.45 | 1 | 0.5 | 1 | 0.5 |
| Tin | 51 | 50 | 1 | 50 | 1 |
| Vanadium | 47 | 2 | 24 | 2 | 30 |
| Zinc | 97 | 50 | 2 | 100 | 1 |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.10 | -- | -- | -- | -- |
| Dalapon | 0.084 | -- | -- | -- | -- |
| MCPA | 0.71 | -- | -- | -- | -- |
| MCPP | 1.1 | -- | -- | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthene | 0.055 | 20 | 0.003 | 5 | 0 |
| Anthracene | 0.069 | 10 | 0.007 | 5 | 0 |
| Benzo(a)anthracene | 0.0 | 1 | 0 | 1 | 0 |
| Benzo(a)pyrene | 0.0 | 1 | 0 | 1 | 0 |
| Benzo(b)fluoranthene | 0.32 | 1 | 0.3 | 1 | 0 |
| Benzo(g,h,i)perylene | 0.0045 | 1 | 0.004 | 1 | 0.005 |
| Benzo(k)fluoranthene | 0.0 | 1 | 0 | 1 | 0 |
| Chrysene | 0.87 | 1 | 0.7 | 1 | 0.005 |
| Fluoranthene | 0.36 | 1 | 0.3 | 1 | 0.005 |
| Fluorene | 0.15 | 10 | 0.02 | 5 | 0 |
| Indeno(1,2,3-c,d)pyrene | 0.0 | 1 | 0 | 1 | 0 |
| Naphthalene | 0.16 | 10 | 0.02 | 5 | 0 |
| Pyrene | 0.62 | 1 | 0.5 | 10 | 0.0005 |
| Total LMW PAH | 0.43 | 10 | 0.04 | 5 | 0 |
| Total HMW PAH | 2.2 | 1 | 2 | 1 | 0.02 |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.016 | 40 | 0.0004 | 1 | 0.02 |
| Sum of PCB Congeners | 0.028 | 40 | 0.0007 | 1 | 0.03 |
| Pesticides | | | | | |
| 4,4'-DDE | 0.014 | 0.9 | 0.02 | 0.1 | 0 |
| 4,4'-DDT | 0.063 | 0.9 | 0.07 | 0.1 | 0.08 |
| Total DDT | No Data | -- | 0.09 | -- | -- |
| Hexachlorobenzene | 0.0023 | 100 | 0.00002 | 2 | 0.001 |
| Methoxychlor | 0.0039 | -- | -- | -- | -- |

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

| CPEC | Burial Trench Area | | | | | HQ (unitless) |
|---|-------------------------------------|---|------------------|---|------------------|---------------|
| | Soil ^a EPC (mg/kg) | Plant Toxicity Value ^b (mg/kg) | HQ (unitless) | Soil Invertebrate Toxicity Value ^b (mg/kg) | HQ (unitless) | |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | | |
| Bis(2-ethylhexyl)phthalate | 0.0 | 200 | 0 | 200 | 0 | |
| Diethylphthalate | 0.0 | 100 | 0 | 200 | 0 | |
| Volatile Organic Compounds (VOCs) | | | | | | |
| 1,1,1-Trichloroethane | 0.064 | -- | -- | 5 | 0.01 | |
| 1,1-Dichloroethane | 4.3 | -- | -- | 5 | 0.07 | |
| 1,1-Dichloroethylene | 0.034 | 100 | 0.0003 | 5 | 0.003 | |
| 1,2-Dichloroethene | 0.015 | -- | -- | 5 | 0 | |
| Acetone | 1.1 | -- | -- | -- | -- | |
| Acetonitrile | 0.17 | -- | -- | -- | -- | |
| Acrolein | 0.017 | -- | -- | -- | -- | |
| Benzene | 0.0055 | -- | -- | 0.5 | 0.004 | |
| Carbon disulfide | 0.021 | -- | -- | -- | -- | |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 5.0 | -- | -- | -- | -- | |
| Isopropanol | 0.067 | 10 | 0.007 | -- | -- | |
| Methyl ethyl ketone | 0.36 | -- | -- | -- | -- | |
| Methylene chloride | 0.032 | -- | -- | 2 | 0 | |
| Propanal | 0.18 | -- | -- | -- | -- | |
| Tert-Butyl alcohol (TBA) | 0.020 | -- | -- | -- | -- | |
| Tetrachloroethylene | 0.33 | 100 | 0.003 | 0.2 | 2 | |
| Tetrahydrofuran | 0.046 | -- | -- | 4 | 0 | |
| Toluene | 0.0034 | 200 | 0.00002 | 3 | 0.001 | |
| Trichloroethylene | 24 | -- | -- | 0.01 | 2400 | |
| Area CPEC | | | | | | |
| Herbicides | | | | | | |
| 2,4,5-TP (Silvex) | 0.022 | -- | -- | -- | -- | |
| 2-sec-Butyl-4,6-dinitrophenol (Dinoseb) | No Data | -- | -- | -- | -- | |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | | |
| Acenaphthylene | No Data | 10 | -- | 5 | -- | |
| Pesticides | | | | | | |
| 4,4'-DDD | No Data | 0.9 | -- | 0.1 | -- | |
| Aldrin | No Data | 1 | -- | 0.5 | -- | |
| alpha-BHC | No Data | 10 | -- | 0.03 | -- | |
| Chlordane, gamma | No Data | 0.2 | -- | 0.04 | -- | |
| delta-BHC | No Data | 10 | -- | 0.03 | -- | |
| Dieldrin | No Data | 1 | -- | 0.5 | -- | |
| Endosulfan I | No Data | 10 | -- | 0.05 | -- | |
| Endrin | No Data | -- | -- | 0.01 | -- | |
| Heptachlor epoxide | No Data | 1 | -- | 0.007 | -- | |
| Mirex | No Data | -- | -- | -- | -- | |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | | |
| Benzoic Acid | 0.34 | -- | -- | -- | -- | |
| Di-n-butylphthalate | No Data | 200 | -- | 200 | -- | |
| N-Nitrosodimethylamine | No Data | -- | -- | 20 | -- | |
| N-Nitrosodipropylamine | No Data | -- | -- | 20 | -- | |
| N-Nitrosomethylamine | 0.0067 | -- | -- | 20 | 0.0003 | |
| N-Nitrosopyrrolidine | No Data | -- | -- | -- | -- | |

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

| CPEC | Maintenance Shed Area | | | | |
|--|-------------------------------------|---|------------------|---|------------------|
| | Soil ^a EPC (mg/kg) | Plant Toxicity Value ^b (mg/kg) | HQ (unitless) | Soil Invertebrate Toxicity Value ^b (mg/kg) | HQ (unitless) |
| Inorganics | | | | | |
| Barium | 1300 | 500 | 3 | 330 | 4 |
| Beryllium | 0.54 | 10 | 0.06 | 40 | 0.01 |
| Cadmium | 11 | 32 | 0.3 | 140 | 0.08 |
| Chromium | 300 | 1 | 300 | 0.4 | 750 |
| Cobalt | 7.4 | 13 | 0.6 | 50 | 0.1 |
| Copper | 170 | 70 | 2 | 80 | 2 |
| Total Cyanide | 0.0 | -- | -- | 0.9 | 0 |
| Lead | 970 | 120 | 8 | 1700 | 0.6 |
| Manganese | 290 | 220 | 2 | 450 | 0.6 |
| Mercury | 0.22 | 0.3 | 0.7 | 0.1 | 2 |
| Molybdenum | 4.3 | 2 | 2 | 40 | 0.1 |
| Nickel | 86 | 38 | 2 | 280 | 0.3 |
| Selenium | 0.0 | 1 | 0 | 70 | 0 |
| Thallium | 1.9 | 1 | 2 | 1 | 2 |
| Tin | 62 | 50 | 1 | 50 | 1 |
| Vanadium | 36 | 2 | 18 | 2 | 23 |
| Zinc | 350 | 50 | 7 | 100 | 4 |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.0 | -- | -- | -- | -- |
| Dalapon | 0.0 | -- | -- | -- | -- |
| MCPA | 0.0 | -- | -- | -- | -- |
| MCPP | 0.0 | -- | -- | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthene | 0.0049 | 20 | 0.0002 | 5 | 0 |
| Anthracene | 0.0048 | 10 | 0.0005 | 5 | 0.001 |
| Benzo(a)anthracene | 0.0077 | 1 | 0.006 | 1 | 0.008 |
| Benzo(a)pyrene | 0.019 | 1 | 0.02 | 1 | 0.02 |
| Benzo(b)fluoranthene | 0.0076 | 1 | 0.006 | 1 | 0.006 |
| Benzo(g,h,i)perylene | 0.0 | 1 | 0 | 1 | 0 |
| Benzo(k)fluoranthene | 0.018 | 1 | 0.02 | 1 | 0.02 |
| Chrysene | 0.018 | 1 | 0.02 | 1 | 0.02 |
| Fluoranthene | 0.012 | 1 | 0.01 | 1 | 0.01 |
| Fluorene | 0.0088 | 10 | 0.0009 | 5 | 0.0008 |
| Indeno(1,2,3-c,d)pyrene | 0.0 | 1 | 0 | 1 | 0 |
| Naphthalene | 0.041 | 10 | 0.004 | 5 | 0.003 |
| Pyrene | 0.019 | 1 | 0.02 | 10 | 0.002 |
| Total LMW PAH | 0.060 | 10 | 0.006 | 5 | 0.005 |
| Total HMW PAH | 0.10 | 1 | 0.08 | 1 | 0.1 |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.55 | 40 | 0.01 | 1 | 0.6 |
| Sum of PCB Congeners | 0.064 | 40 | 0.002 | 1 | 0.06 |
| Pesticides | | | | | |
| 4,4'-DDE | 0.010 | 0.9 | 0.01 | 0.1 | 0.1 |
| 4,4'-DDT | 0.081 | 0.9 | 0.09 | 0.1 | 0.8 |
| Total DDT | No Data | -- | 0.1 | -- | -- |
| Hexachlorobenzene | 0.0063 | 100 | 0.00006 | 2 | 0.003 |
| Methoxychlor | 0.017 | -- | -- | -- | -- |

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

| CPEC | Maintenance Shed Area | | | | |
|---|-------------------------------------|---|------------------|---|------------------|
| | Soil ^a EPC (mg/kg) | Plant Toxicity Value ^b (mg/kg) | HQ (unitless) | Soil Invertebrate Toxicity Value ^b (mg/kg) | HQ (unitless) |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Bis(2-ethylhexyl)phthalate | 0.47 | 200 | 0.002 | 200 | 0.002 |
| Diethylphthalate | 0.24 | 100 | 0.002 | 200 | 0.001 |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1,1-Trichloroethane | 0.0 | -- | -- | 5 | 0 |
| 1,1-Dichloroethane | 0.0 | -- | -- | 5 | 0 |
| 1,1-Dichloroethylene | 0.0 | 100 | 0 | 5 | 0 |
| 1,2-Dichloroethene | 0.0 | -- | -- | 5 | 0 |
| Acetone | 0.061 | -- | -- | -- | -- |
| Acetonitrile | 0.0 | -- | -- | -- | -- |
| Acrolein | 0.0 | -- | -- | -- | -- |
| Benzene | 0.0019 | -- | -- | 0.5 | 0.004 |
| Carbon disulfide | 0.043 | -- | -- | -- | -- |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0066 | -- | -- | -- | -- |
| Isopropanol | 0.0 | 10 | 0 | -- | -- |
| Methyl ethyl ketone | 0.0 | -- | -- | -- | -- |
| Methylene chloride | 0.0 | -- | -- | 2 | 0 |
| Propanal | 1.3 | -- | -- | -- | -- |
| Tert-Butyl alcohol (TBA) | 0.0 | -- | -- | -- | -- |
| Tetrachloroethylene | 0.0060 | 100 | 0.00006 | 0.2 | 0.01 |
| Tetrahydrofuran | 0.0 | -- | -- | 4 | 0 |
| Toluene | 0.0050 | 200 | 0.00003 | 3 | 0.002 |
| Trichloroethylene | 0.0 | -- | -- | 0.01 | 0 |
| Area CPEC | | | | | |
| Herbicides | | | | | |
| 2,4,5-TP (Silvex) | No Data | -- | -- | -- | -- |
| 2-sec-Butyl-4,6-dinitrophenol (Dinoseb) | No Data | -- | -- | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthylene | 0.0022 | 10 | 0.0002 | 5 | 0.0004 |
| Pesticides | | | | | |
| 4,4'-DDD | No Data | 0.9 | -- | 0.1 | -- |
| Aldrin | No Data | 1 | -- | 0.5 | -- |
| alpha-BHC | No Data | 10 | -- | 0.03 | -- |
| Chlordane, gamma | No Data | 0.2 | -- | 0.04 | -- |
| delta-BHC | No Data | 10 | -- | 0.03 | -- |
| Dieldrin | No Data | 1 | -- | 0.5 | -- |
| Endosulfan I | No Data | 10 | -- | 0.05 | -- |
| Endrin | No Data | -- | -- | 0.01 | -- |
| Heptachlor epoxide | No Data | 1 | -- | 0.007 | -- |
| Mirex | No Data | -- | -- | -- | -- |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Benzoic Acid | 0.41 | -- | -- | -- | -- |
| Di-n-butylphthalate | No Data | 200 | -- | 200 | -- |
| N-Nitrosodimethylamine | No Data | -- | -- | 20 | -- |
| N-Nitrosodipropylamine | No Data | -- | -- | 20 | -- |
| N-Nitrosomethylamine | No Data | -- | -- | 20 | -- |
| N-Nitrosopyrrolidine | No Data | -- | -- | -- | -- |

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

| CPEC | Central Drainage Area | | | | |
|--|-------------------------------------|---|------------------|---|------------------|
| | Soil ^a EPC (mg/kg) | Plant Toxicity Value ^b (mg/kg) | HQ (unitless) | Soil Invertebrate Toxicity Value ^b (mg/kg) | HQ (unitless) |
| Inorganics | | | | | |
| Barium | 960 | 500 | 2 | 330 | 3 |
| Beryllium | 0.61 | 10 | 0.07 | 40 | 0.02 |
| Cadmium | 2.7 | 32 | 0.7 | 140 | 0.02 |
| Chromium | 75 | 1 | 75 | 0.4 | 188 |
| Cobalt | 7.6 | 13 | 0.7 | 50 | 0.2 |
| Copper | 64 | 70 | 0.9 | 80 | 0.8 |
| Total Cyanide | 0.0 | -- | -- | 0.9 | 0 |
| Lead | 28 | 120 | 0.2 | 1700 | 0.02 |
| Manganese | 290 | 220 | 5 | 450 | 0.6 |
| Mercury | 0.43 | 0.3 | 1 | 0.1 | 4 |
| Molybdenum | 6.5 | 2 | 4 | 40 | 0.2 |
| Nickel | 52 | 38 | 2 | 280 | 0.2 |
| Selenium | 1.8 | 1 | 2 | 70 | 0.03 |
| Thallium | 0.61 | 1 | 0.6 | 1 | 0.6 |
| Tin | 64 | 50 | 1 | 50 | 1 |
| Vanadium | 51 | 2 | 26 | 2 | 32 |
| Zinc | 170 | 50 | 3 | 100 | 2 |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.032 | -- | -- | -- | -- |
| Dalapon | 0.045 | -- | -- | -- | -- |
| MCPA | 1.8 | -- | -- | -- | -- |
| MCPP | 120 | -- | -- | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthene | 0.063 | 20 | 0.003 | 5 | 0.01 |
| Anthracene | 0.030 | 10 | 0.003 | 5 | 0.006 |
| Benzo(a)anthracene | 0.036 | 1 | 0.03 | 1 | 0.04 |
| Benzo(a)pyrene | 0.081 | 1 | 0.07 | 1 | 0.08 |
| Benzo(b)fluoranthene | 0.057 | 1 | 0.05 | 1 | 0.06 |
| Benzo(g,h,i)perylene | 0.026 | 1 | 0.02 | 1 | 0.03 |
| Benzo(k)fluoranthene | 0.40 | 1 | 0.3 | 1 | 0.4 |
| Chrysene | 0.097 | 1 | 0.08 | 1 | 0.1 |
| Fluoranthene | 0.29 | 1 | 0.2 | 1 | 0.3 |
| Fluorene | 0.097 | 10 | 0.01 | 5 | 0.02 |
| Indeno(1,2,3-c,d)pyrene | 0.015 | 1 | 0.01 | 1 | 0.02 |
| Naphthalene | 0.070 | 10 | 0.007 | 5 | 0.01 |
| Pyrene | 0.39 | 1 | 0.3 | 10 | 0.04 |
| Total LMW PAH | 0.26 | 10 | 0.03 | 5 | 0.05 |
| Total HMW PAH | 1.4 | 1 | 1 | 1 | 1 |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 3.2 | 40 | 0.08 | 1 | 3 |
| Sum of PCB Congeners | 0.23 | 40 | 0.006 | 1 | 0.2 |
| Pesticides | | | | | |
| 4,4'-DDE | 0.0 | 0.9 | 0 | 0.1 | 0 |
| 4,4'-DDT | 0.37 | 0.9 | 0.4 | 0.1 | 0.3 |
| Total DDT | No Data | -- | 0.4 | -- | -- |
| Hexachlorobenzene | 0.36 | 100 | 0.004 | 2 | 0.04 |
| Methoxychlor | 0.0056 | -- | -- | -- | -- |

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

| CPEC | Central Drainage Area | | | | | HQ (unitless) |
|---|-------------------------------------|---|------------------|---|------------------|---------------|
| | Soil ^a EPC (mg/kg) | Plant Toxicity Value ^b (mg/kg) | HQ (unitless) | Soil Invertebrate Toxicity Value ^b (mg/kg) | HQ (unitless) | |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | | |
| Bis(2-ethylhexyl)phthalate | 29 | 200 | 0.1 | 200 | 0.1 | |
| Diethylphthalate | 0.22 | 100 | 0.002 | 200 | 0.001 | |
| Volatile Organic Compounds (VOCs) | | | | | | |
| 1,1,1-Trichloroethane | 1.5 | -- | -- | 5 | 0.3 | |
| 1,1-Dichloroethane | 4.2 | -- | -- | 5 | 0.09 | |
| 1,1-Dichloroethylene | 0.35 | 100 | 0.004 | 5 | 0.004 | |
| 1,2-Dichloroethene | 2.1 | -- | -- | 5 | 0.02 | |
| Acetone | 0.060 | -- | -- | -- | -- | |
| Acetonitrile | 0.18 | -- | -- | -- | -- | |
| Acrolein | 0.0089 | -- | -- | -- | -- | |
| Benzene | 0.95 | -- | -- | 0.5 | 0.005 | |
| Carbon disulfide | 0.018 | -- | -- | -- | -- | |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 4.7 | -- | -- | -- | -- | |
| Isopropanol | 0.074 | 10 | 0.007 | -- | -- | |
| Methyl ethyl ketone | 0.020 | -- | -- | -- | -- | |
| Methylene chloride | 0.43 | -- | -- | 2 | 0.1 | |
| Propanal | 0.023 | -- | -- | -- | -- | |
| Tert-Butyl alcohol (TBA) | 0.040 | -- | -- | -- | -- | |
| Tetrachloroethylene | 9.3 | 100 | 0.09 | 0.2 | 17 | |
| Tetrahydrofuran | 0.18 | -- | -- | 4 | 0.0007 | |
| Toluene | 0.32 | 200 | 0.002 | 3 | 0.0004 | |
| Trichloroethylene | 5.9 | -- | -- | 0.01 | 65 | |
| Area CPEC | | | | | | |
| Herbicides | | | | | | |
| 2,4,5-TP (Silvex) | No Data | -- | -- | -- | -- | |
| 2-sec-Butyl-4,6-dinitrophenol (Dinoseb) | No Data | -- | -- | -- | -- | |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | | |
| Acenaphthylene | 0.0078 | 10 | 0.0008 | 5 | 0.002 | |
| Pesticides | | | | | | |
| 4,4'-DDD | No Data | 0.9 | -- | 0.1 | -- | |
| Aldrin | 0.019 | 1 | 0.02 | 0.5 | 0.04 | |
| alpha-BHC | No Data | 10 | -- | 0.03 | -- | |
| Chlordane, gamma | No Data | 0.2 | -- | 0.04 | -- | |
| delta-BHC | No Data | 10 | -- | 0.03 | -- | |
| Dieldrin | No Data | 1 | -- | 0.5 | -- | |
| Endosulfan I | No Data | 10 | -- | 0.05 | -- | |
| Endrin | 0.12 | -- | -- | 0.01 | 13 | |
| Heptachlor epoxide | No Data | 1 | -- | 0.007 | -- | |
| Mirex | 0.080 | -- | -- | -- | -- | |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | | |
| Benzoic Acid | No Data | -- | -- | -- | -- | |
| Di-n-butylphthalate | No Data | 200 | -- | 200 | -- | |
| N-Nitrosodimethylamine | No Data | -- | -- | 20 | -- | |
| N-Nitrosodipropylamine | No Data | -- | -- | 20 | -- | |
| N-Nitrosomethylamine | No Data | -- | -- | 20 | -- | |
| N-Nitrosopyrrolidine | No Data | -- | -- | -- | -- | |

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

| CPEC | Administration Building Area | | | | |
|--|-------------------------------------|---|------------------|---|------------------|
| | Soil ^a EPC (mg/kg) | Plant Toxicity Value ^b (mg/kg) | HQ (unitless) | Soil Invertebrate Toxicity Value ^b (mg/kg) | HQ (unitless) |
| Inorganics | | | | | |
| Barium | 130 | 500 | 0.6 | 330 | 0.4 |
| Beryllium | 0.55 | 10 | 0.06 | 40 | 0.01 |
| Cadmium | 1.1 | 32 | 0.03 | 140 | 0.008 |
| Chromium | 27 | 1 | 32 | 0.4 | 68 |
| Cobalt | 6.0 | 13 | 0.5 | 50 | 0.1 |
| Copper | 14 | 70 | 0.2 | 80 | 0.2 |
| Total Cyanide | 0.0 | -- | -- | 0.9 | 0 |
| Lead | 0.0 | 120 | 0 | 1700 | 0 |
| Manganese | 810 | 220 | 4 | 450 | 2 |
| Mercury | 0.038 | 0.3 | 0.2 | 0.1 | 0.4 |
| Molybdenum | 2.4 | 2 | 3 | 40 | 0.06 |
| Nickel | 31 | 38 | 0.9 | 280 | 0.1 |
| Selenium | 1.4 | 1 | 1 | 70 | 0.02 |
| Thallium | 0.23 | 1 | 0.3 | 1 | 0.2 |
| Tin | 38 | 50 | 1 | 50 | 0.8 |
| Vanadium | 30 | 2 | 19 | 2 | 19 |
| Zinc | 51 | 50 | 1 | 100 | 0.5 |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.034 | -- | -- | -- | -- |
| Dalapon | 0.28 | -- | -- | -- | -- |
| MCPA | 3.0 | -- | -- | -- | -- |
| MCPP | 0.0 | -- | -- | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthene | 0.0051 | 20 | 0.0003 | 5 | 0.001 |
| Anthracene | 0.012 | 10 | 0.001 | 5 | 0.002 |
| Benzo(a)anthracene | 0.016 | 1 | 0.01 | 1 | 0.02 |
| Benzo(a)pyrene | 0.015 | 1 | 0.01 | 1 | 0.02 |
| Benzo(b)fluoranthene | 0.015 | 1 | 0.01 | 1 | 0.02 |
| Benzo(g,h,i)perylene | 0.016 | 1 | 0.01 | 1 | 0.02 |
| Benzo(k)fluoranthene | 0.014 | 1 | 0.01 | 1 | 0.01 |
| Chrysene | 0.017 | 1 | 0.01 | 1 | 0.02 |
| Fluoranthene | 0.013 | 1 | 0.01 | 1 | 0.01 |
| Fluorene | 0.0070 | 10 | 0.0007 | 5 | 0.001 |
| Indeno(1,2,3-c,d)pyrene | 0.014 | 1 | 0.01 | 1 | 0.01 |
| Naphthalene | 0.0066 | 10 | 0.0007 | 5 | 0.0008 |
| Pyrene | 0.016 | 1 | 0.01 | 10 | 0.002 |
| Total LMW PAH | 0.031 | 10 | 0.003 | 5 | 0.006 |
| Total HMW PAH | 0.14 | 1 | 0.1 | 1 | 0.1 |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.0 | 40 | 0 | 1 | 0 |
| Sum of PCB Congeners | 0.00012 | 40 | 0.000003 | 1 | 0.0001 |
| Pesticides | | | | | |
| 4,4'-DDE | 0.0 | 0.9 | 0 | 0.1 | 0 |
| 4,4'-DDT | 0.0029 | 0.9 | 0.003 | 0.1 | 0.03 |
| Total DDT | No Data | -- | 0.003 | -- | -- |
| Hexachlorobenzene | 0.0069 | 100 | 0.00007 | 2 | 0.003 |
| Methoxychlor | 0.0 | -- | -- | -- | -- |

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

| CPEC | Administration Building Area | | | | |
|---|-------------------------------------|---|------------------|---|------------------|
| | Soil ^a EPC (mg/kg) | Plant Toxicity Value ^b (mg/kg) | HQ (unitless) | Soil Invertebrate Toxicity Value ^b (mg/kg) | HQ (unitless) |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Bis(2-ethylhexyl)phthalate | 0.0 | 200 | 0 | 200 | 0 |
| Diethylphthalate | 0.0 | 100 | 0 | 200 | 0 |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1,1-Trichloroethane | 0.0 | -- | -- | 5 | 0 |
| 1,1-Dichloroethane | 0.0 | -- | -- | 5 | 0 |
| 1,1-Dichloroethylene | 0.0 | 100 | 0 | 5 | 0 |
| 1,2-Dichloroethene | 0.0013 | -- | -- | 5 | 0 |
| Acetone | 0.078 | -- | -- | -- | -- |
| Acetonitrile | 0.0 | -- | -- | -- | -- |
| Acrolein | 0.0 | -- | -- | -- | -- |
| Benzene | 0.0041 | -- | -- | 0.5 | 0.007 |
| Carbon disulfide | 0.0085 | -- | -- | -- | -- |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0 | -- | -- | -- | -- |
| Isopropanol | 0.0 | 10 | 0 | -- | -- |
| Methyl ethyl ketone | 0.014 | -- | -- | -- | -- |
| Methylene chloride | 0.0 | -- | -- | 2 | 0 |
| Propanal | 0.0 | -- | -- | -- | -- |
| Tert-Butyl alcohol (TBA) | 0.022 | -- | -- | -- | -- |
| Tetrachloroethylene | 0.0020 | 100 | 0.00002 | 0.2 | 0.01 |
| Tetrahydrofuran | 0.0026 | -- | -- | 4 | 0 |
| Toluene | 0.0017 | 200 | 0.000009 | 3 | 0 |
| Trichloroethylene | 0.0 | -- | -- | 0.01 | 0 |
| Area CPEC | | | | | |
| Herbicides | | | | | |
| 2,4,5-TP (Silvex) | No Data | -- | -- | -- | -- |
| 2-sec-Butyl-4,6-dinitrophenol (Dinoseb) | No Data | -- | -- | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthylene | No Data | 10 | -- | 5 | -- |
| Pesticides | | | | | |
| 4,4'-DDD | No Data | 0.9 | -- | 0.1 | -- |
| Aldrin | No Data | 1 | -- | 0.5 | -- |
| alpha-BHC | No Data | 10 | -- | 0.03 | -- |
| Chlordane, gamma | No Data | 0.2 | -- | 0.04 | -- |
| delta-BHC | No Data | 10 | -- | 0.03 | -- |
| Dieldrin | No Data | 1 | -- | 0.5 | -- |
| Endosulfan I | No Data | 10 | -- | 0.05 | -- |
| Endrin | No Data | -- | -- | 0.01 | -- |
| Heptachlor epoxide | No Data | 1 | -- | 0.007 | -- |
| Mirex | No Data | -- | -- | -- | -- |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Benzoic Acid | No Data | -- | -- | -- | -- |
| Di-n-butylphthalate | No Data | 200 | -- | 200 | -- |
| N-Nitrosodimethylamine | No Data | -- | -- | 20 | -- |
| N-Nitrosodipropylamine | No Data | -- | -- | 20 | -- |
| N-Nitrosomethylamine | No Data | -- | -- | 20 | -- |
| N-Nitrosopyrrolidine | No Data | -- | -- | -- | -- |

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

| CPEC | Roadway Areas | | | | |
|--|-------------------------------------|---|------------------|---|------------------|
| | Soil ^a EPC (mg/kg) | Plant Toxicity Value ^b (mg/kg) | HQ (unitless) | Soil Invertebrate Toxicity Value ^b (mg/kg) | HQ (unitless) |
| Inorganics | | | | | |
| Barium | 550 | 500 | 1 | 330 | 2 |
| Beryllium | 0.64 | 10 | 0.08 | 40 | 0.02 |
| Cadmium | 13 | 32 | 0.4 | 140 | 0.09 |
| Chromium | 470 | 1 | 470 | 0.4 | 1175 |
| Cobalt | 6.2 | 13 | 1 | 50 | 0.1 |
| Copper | 350 | 70 | 5 | 80 | 4 |
| Total Cyanide | No Data | -- | -- | 0.9 | -- |
| Lead | 61 | 120 | 0.5 | 1700 | 0.04 |
| Manganese | 320 | 220 | 4 | 450 | 0.7 |
| Mercury | 0.15 | 0.3 | 0.5 | 0.1 | 2 |
| Molybdenum | 6.4 | 2 | 3 | 40 | 0.2 |
| Nickel | 170 | 38 | 4 | 280 | 0.6 |
| Selenium | 1.8 | 1 | 2 | 70 | 0.03 |
| Thallium | 0.57 | 1 | 0.8 | 1 | 0.6 |
| Tin | 70 | 50 | 1 | 50 | 1 |
| Vanadium | 43 | 2 | 22 | 2 | 27 |
| Zinc | 360 | 50 | 7 | 100 | 4 |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | No Data | -- | -- | -- | -- |
| Dalapon | No Data | -- | -- | -- | -- |
| MCPA | No Data | -- | -- | -- | -- |
| MCPP | No Data | -- | -- | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthene | 0.71 | 20 | 0.04 | 5 | 0.1 |
| Anthracene | 0.33 | 10 | 0.03 | 5 | 0.07 |
| Benzo(a)anthracene | 0.19 | 1 | 0.2 | 1 | 0.2 |
| Benzo(a)pyrene | 0.22 | 1 | 0.2 | 1 | 0.2 |
| Benzo(b)fluoranthene | 0.015 | 1 | 0.01 | 1 | 0.004 |
| Benzo(g,h,i)perylene | 0.070 | 1 | 0.06 | 1 | 0.07 |
| Benzo(k)fluoranthene | 0.041 | 1 | 0.03 | 1 | 0.04 |
| Chrysene | 0.95 | 1 | 0.8 | 1 | 1 |
| Fluoranthene | 0.57 | 1 | 0.5 | 1 | 0.6 |
| Fluorene | 2.2 | 10 | 0.2 | 5 | 0.4 |
| Indeno(1,2,3-c,d)pyrene | 0.021 | 1 | 0.02 | 1 | 0.01 |
| Naphthalene | 1.2 | 10 | 0.1 | 5 | 0.2 |
| Pyrene | 0.78 | 1 | 0.7 | 10 | 0.08 |
| Total LMW PAH | 4.4 | 10 | 0.4 | 5 | 0.9 |
| Total HMW PAH | 2.9 | 1 | 2 | 1 | 3 |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 1.5 | 40 | 0.04 | 1 | 2 |
| Sum of PCB Congeners | 0.35 | 40 | 0.009 | 1 | 0.4 |
| Pesticides | | | | | |
| 4,4'-DDE | 0.0011 | 0.9 | 0.001 | 0.1 | 0.01 |
| 4,4'-DDT | 0.36 | 0.9 | 0.4 | 0.1 | 4 |
| Total DDT | No Data | -- | 0.4 | -- | -- |
| Hexachlorobenzene | 0.0065 | 100 | 0.00007 | 2 | 0.003 |
| Methoxychlor | 0.059 | -- | -- | -- | -- |

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

| CPEC | Roadway Areas | | | | |
|---|-------------------------------------|---|------------------|---|------------------|
| | Soil ^a EPC (mg/kg) | Plant Toxicity Value ^b (mg/kg) | HQ (unitless) | Soil Invertebrate Toxicity Value ^b (mg/kg) | HQ (unitless) |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Bis(2-ethylhexyl)phthalate | 2.0 | 200 | 0.01 | 200 | 0.01 |
| Diethylphthalate | 3.1 | 100 | 0.03 | 200 | 0.001 |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1,1-Trichloroethane | 0.0 | -- | -- | 5 | 0 |
| 1,1-Dichloroethane | 0.0 | -- | -- | 5 | 0 |
| 1,1-Dichloroethylene | 0.0 | 100 | 0 | 5 | 0 |
| 1,2-Dichloroethene | 0.0 | -- | -- | 5 | 0 |
| Acetone | No Data | -- | -- | -- | -- |
| Acetonitrile | No Data | -- | -- | -- | -- |
| Acrolein | No Data | -- | -- | -- | -- |
| Benzene | 0.0 | -- | -- | 0.5 | 0 |
| Carbon disulfide | 0.0 | -- | -- | -- | -- |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0 | -- | -- | -- | -- |
| Isopropanol | No Data | 10 | -- | -- | -- |
| Methyl ethyl ketone | No Data | -- | -- | -- | -- |
| Methylene chloride | 0.0 | -- | -- | 2 | 0 |
| Propanal | 0.0 | -- | -- | -- | -- |
| Tert-Butyl alcohol (TBA) | No Data | -- | -- | -- | -- |
| Tetrachloroethylene | 0.0 | 100 | 0 | 0.2 | 0 |
| Tetrahydrofuran | 0.0 | -- | -- | 4 | 0 |
| Toluene | 0.0 | 200 | 0 | 3 | 0 |
| Trichloroethylene | 0.0 | -- | -- | 0.01 | 0 |
| Area CPEC | | | | | |
| Herbicides | | | | | |
| 2,4,5-TP (Silvex) | No Data | -- | -- | -- | -- |
| 2-sec-Butyl-4,6-dinitrophenol (Dinoseb) | No Data | -- | -- | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthylene | 0.042 | 10 | 0.004 | 5 | 0.008 |
| Pesticides | | | | | |
| 4,4'-DDD | No Data | 0.9 | -- | 0.1 | -- |
| Aldrin | No Data | 1 | -- | 0.5 | -- |
| alpha-BHC | No Data | 10 | -- | 0.03 | -- |
| Chlordane, gamma | No Data | 0.2 | -- | 0.04 | -- |
| delta-BHC | No Data | 10 | -- | 0.03 | -- |
| Dieldrin | 0.015 | 1 | 0.02 | 0.5 | 0.03 |
| Endosulfan I | No Data | 10 | -- | 0.05 | -- |
| Endrin | No Data | -- | -- | 0.01 | -- |
| Heptachlor epoxide | No Data | 1 | -- | 0.007 | -- |
| Mirex | No Data | -- | -- | -- | -- |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Benzoic Acid | No Data | -- | -- | -- | -- |
| Di-n-butylphthalate | No Data | 200 | -- | 200 | -- |
| N-Nitrosodimethylamine | No Data | -- | -- | 20 | -- |
| N-Nitrosodipropylamine | No Data | -- | -- | 20 | -- |
| N-Nitrosomethylamine | No Data | -- | -- | 20 | -- |
| N-Nitrosopyrrolidine | No Data | -- | -- | -- | -- |

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

| CPEC | Remaining On-site Areas | | | | |
|--|-------------------------------------|---|------------------|---|------------------|
| | Soil ^a EPC (mg/kg) | Plant Toxicity Value ^b (mg/kg) | HQ (unitless) | Soil Invertebrate Toxicity Value ^b (mg/kg) | HQ (unitless) |
| Inorganics | | | | | |
| Barium | 170 | 500 | 2 | 330 | 0.5 |
| Beryllium | 0.84 | 10 | 0.08 | 40 | 0.02 |
| Cadmium | 3.1 | 32 | 0.1 | 140 | 0.02 |
| Chromium | 41 | 1 | 130 | 0.4 | 103 |
| Cobalt | 12 | 13 | 1 | 50 | 0.2 |
| Copper | 21 | 70 | 2 | 80 | 0.3 |
| Total Cyanide | 0.0 | -- | -- | 0.9 | 0 |
| Lead | 37 | 120 | 0.3 | 1700 | 0.02 |
| Manganese | 480 | 220 | 2 | 450 | 1 |
| Mercury | 0.034 | 0.3 | 0.3 | 0.1 | 0.3 |
| Molybdenum | 11 | 2 | 6 | 40 | 0.3 |
| Nickel | 62 | 38 | 2 | 280 | 0.2 |
| Selenium | 1.6 | 1 | 4 | 70 | 0.02 |
| Thallium | 2.1 | 1 | 3 | 1 | 2 |
| Tin | 63 | 50 | 1 | 50 | 1 |
| Vanadium | 47 | 2 | 24 | 2 | 30 |
| Zinc | 75 | 50 | 2 | 100 | 0.8 |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.0 | -- | -- | -- | -- |
| Dalapon | 0.018 | -- | -- | -- | -- |
| MCPA | 4.9 | -- | -- | -- | -- |
| MCPP | 0.92 | -- | -- | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthene | 0.13 | 20 | 0.007 | 5 | 0.03 |
| Anthracene | 0.0023 | 10 | 0.0002 | 5 | 0 |
| Benzo(a)anthracene | 0.12 | 1 | 0.1 | 1 | 0.1 |
| Benzo(a)pyrene | 0.51 | 1 | 0.4 | 1 | 0.5 |
| Benzo(b)fluoranthene | 0.017 | 1 | 0.01 | 1 | 0.02 |
| Benzo(g,h,i)perylene | 0.0076 | 1 | 0.006 | 1 | 0.008 |
| Benzo(k)fluoranthene | 0.55 | 1 | 0.5 | 1 | 0.6 |
| Chrysene | 0.10 | 1 | 0.08 | 1 | 0.1 |
| Fluoranthene | 0.017 | 1 | 0.01 | 1 | 0.02 |
| Fluorene | 0.034 | 10 | 0.003 | 5 | 0.007 |
| Indeno(1,2,3-c,d)pyrene | 0.0061 | 1 | 0.005 | 1 | 0.006 |
| Naphthalene | 0.026 | 10 | 0.003 | 5 | 0.002 |
| Pyrene | 0.48 | 1 | 0.4 | 10 | 0.05 |
| Total LMW PAH | 0.19 | 10 | 0.02 | 5 | 0.04 |
| Total HMW PAH | 1.8 | 1 | 2 | 1 | 2 |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 8.0 | 40 | 0.2 | 1 | 4 |
| Sum of PCB Congeners | 0.082 | 40 | 0.002 | 1 | 0.01 |
| Pesticides | | | | | |
| 4,4'-DDE | 0.031 | 0.9 | 0.03 | 0.1 | 0.3 |
| 4,4'-DDT | 0.54 | 0.9 | 0.6 | 0.1 | 2 |
| Total DDT | No Data | -- | 0.7 | -- | -- |
| Hexachlorobenzene | 0.0016 | 100 | 0.00002 | 2 | 0.0008 |
| Methoxychlor | 0.14 | -- | -- | -- | -- |

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

| CPEC | Remaining On-site Areas | | | | |
|---|-------------------------------------|---|------------------|---|------------------|
| | Soil ^a EPC (mg/kg) | Plant Toxicity Value ^b (mg/kg) | HQ (unitless) | Soil Invertebrate Toxicity Value ^b (mg/kg) | HQ (unitless) |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Bis(2-ethylhexyl)phthalate | 0.26 | 200 | 0.001 | 200 | 0.001 |
| Diethylphthalate | 0.27 | 100 | 0.003 | 200 | 0.001 |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1,1-Trichloroethane | 0.0 | -- | -- | 5 | 0 |
| 1,1-Dichloroethane | 0.0014 | -- | -- | 5 | 0 |
| 1,1-Dichloroethylene | 0.0 | 100 | 0 | 5 | 0 |
| 1,2-Dichloroethene | 0.17 | -- | -- | 5 | 0 |
| Acetone | 0.22 | -- | -- | -- | -- |
| Acetonitrile | 0.0 | -- | -- | -- | -- |
| Acrolein | 0.0 | -- | -- | -- | -- |
| Benzene | 0.0051 | -- | -- | 0.5 | 0.01 |
| Carbon disulfide | 0.017 | -- | -- | -- | -- |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0025 | -- | -- | -- | -- |
| Isopropanol | 0.087 | 10 | 0.009 | -- | -- |
| Methyl ethyl ketone | 0.022 | -- | -- | -- | -- |
| Methylene chloride | 0.0065 | -- | -- | 2 | 0.003 |
| Propanal | 0.36 | -- | -- | -- | -- |
| Tert-Butyl alcohol (TBA) | 0.036 | -- | -- | -- | -- |
| Tetrachloroethylene | 0.074 | 100 | 0.0007 | 0.2 | 0 |
| Tetrahydrofuran | 0.0031 | -- | -- | 4 | 0 |
| Toluene | 0.0022 | 200 | 0.00001 | 3 | 0.0002 |
| Trichloroethylene | 0.25 | -- | -- | 0.01 | 0 |
| Area CPEC | | | | | |
| Herbicides | | | | | |
| 2,4,5-TP (Silvex) | No Data | -- | -- | -- | -- |
| 2-sec-Butyl-4,6-dinitrophenol (Dinoseb) | No Data | -- | -- | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthylene | No Data | 10 | -- | 5 | -- |
| Pesticides | | | | | |
| 4,4'-DDD | 0.038 | 0.9 | 0.04 | 0.1 | 0.1 |
| Aldrin | No Data | 1 | -- | 0.5 | -- |
| alpha-BHC | 0.041 | 10 | 0.004 | 0.03 | 1 |
| Chlordane, gamma | No Data | 0.2 | -- | 0.04 | -- |
| delta-BHC | No Data | 10 | -- | 0.03 | -- |
| Dieldrin | No Data | 1 | -- | 0.5 | -- |
| Endosulfan 1 | No Data | 10 | -- | 0.05 | -- |
| Endrin | 0.060 | -- | -- | 0.01 | 6 |
| Heptachlor epoxide | 0.11 | 1 | 0.1 | 0.007 | 10 |
| Mirex | No Data | -- | -- | -- | -- |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Benzoic Acid | No Data | -- | -- | -- | -- |
| Di-n-butylphthalate | No Data | 200 | -- | 200 | -- |
| N-Nitrosodimethylamine | No Data | -- | -- | 20 | -- |
| N-Nitrosodipropylamine | 0.062 | -- | -- | 20 | 0.003 |
| N-Nitrosomethylamine | No Data | -- | -- | 20 | -- |
| N-Nitrosopyrrolidine | 1.3 | -- | -- | -- | -- |

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

| CPEC | Former Ponds and Pads Areas South of the PSCT | | | | |
|--|---|---|------------------|---|------------------|
| | Soil ^a EPC (mg/kg) | Plant Toxicity Value ^b (mg/kg) | HQ (unitless) | Soil Invertebrate Toxicity Value ^b (mg/kg) | HQ (unitless) |
| Inorganics | | | | | |
| Barium | 3800 | 500 | 8 | 330 | 12 |
| Beryllium | 0.62 | 10 | 0.08 | 40 | 0.02 |
| Cadmium | 7.0 | 32 | 0.2 | 140 | 0.05 |
| Chromium | 160 | 1 | 160 | 0.4 | 400 |
| Cobalt | 47 | 13 | 4 | 50 | 0.9 |
| Copper | 59 | 70 | 0.8 | 80 | 0.7 |
| Total Cyanide | 0.0 | -- | -- | 0.9 | 0 |
| Lead | 120 | 120 | 1 | 1700 | 0.07 |
| Manganese | 1100 | 220 | 6 | 450 | 2 |
| Mercury | 0.068 | 0.3 | 0.2 | 0.1 | 0.7 |
| Molybdenum | 11 | 2 | 6 | 40 | 0.3 |
| Nickel | 130 | 38 | 3 | 280 | 0.5 |
| Selenium | 1.9 | 1 | 4 | 70 | 0.03 |
| Thallium | 1.1 | 1 | 1 | 1 | 1 |
| Tin | 65 | 50 | 1 | 50 | 1 |
| Vanadium | 43 | 2 | 22 | 2 | 27 |
| Zinc | 160 | 50 | 3 | 100 | 2 |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.089 | -- | -- | -- | -- |
| Dalapon | 0.057 | -- | -- | -- | -- |
| MCPA | 7.0 | -- | -- | -- | -- |
| MCPP | 2.4 | -- | -- | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthene | 0.27 | 20 | 0.01 | 5 | 0.005 |
| Anthracene | 0.20 | 10 | 0.02 | 5 | 0.006 |
| Benzo(a)anthracene | 0.13 | 1 | 0.1 | 1 | 0.04 |
| Benzo(a)pyrene | 0.062 | 1 | 0.05 | 1 | 0.04 |
| Benzo(b)fluoranthene | 0.055 | 1 | 0.05 | 1 | 0.04 |
| Benzo(g,h,i)perylene | 0.21 | 1 | 0.2 | 1 | 0.2 |
| Benzo(k)fluoranthene | 0.055 | 1 | 0.05 | 1 | 0.06 |
| Chrysene | 0.22 | 1 | 0.2 | 1 | 0.04 |
| Fluoranthene | 0.060 | 1 | 0.05 | 1 | 0.03 |
| Fluorene | 0.16 | 10 | 0.02 | 5 | 0.006 |
| Indeno(1,2,3-c,d)pyrene | 0.045 | 1 | 0.04 | 1 | 0.05 |
| Naphthalene | 0.025 | 10 | 0.003 | 5 | 0.004 |
| Pyrene | 0.22 | 1 | 0.2 | 10 | 0.02 |
| Total LMW PAH | 0.66 | 10 | 0.07 | 5 | 0.02 |
| Total HMW PAH | 1.1 | 1 | 0.9 | 1 | 0.7 |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 1.7 | 40 | 0.04 | 1 | 2 |
| Sum of PCB Congeners | 2.1 | 40 | 0.05 | 1 | 2 |
| Pesticides | | | | | |
| 4,4'-DDE | 0.013 | 0.9 | 0.01 | 0.1 | 0.006 |
| 4,4'-DDT | 0.26 | 0.9 | 0.3 | 0.1 | 3 |
| Total DDT | No Data | -- | 0.3 | -- | -- |
| Hexachlorobenzene | 0.0062 | 100 | 0.00006 | 2 | 0.0004 |
| Methoxychlor | 0.025 | -- | -- | -- | -- |

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

| CPEC | Former Ponds and Pads Areas South of the PSCT | | | | |
|---|---|---|------------------|---|------------------|
| | Soil ^a EPC (mg/kg) | Plant Toxicity Value ^b (mg/kg) | HQ (unitless) | Soil Invertebrate Toxicity Value ^b (mg/kg) | HQ (unitless) |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Bis(2-ethylhexyl)phthalate | 0.36 | 200 | 0.002 | 200 | 0.002 |
| Diethylphthalate | 20 | 100 | 0.2 | 200 | 0.1 |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1,1-Trichloroethane | 0.0040 | -- | -- | 5 | 0.0008 |
| 1,1-Dichloroethane | 2.3 | -- | -- | 5 | 0.0005 |
| 1,1-Dichloroethylene | 0.020 | 100 | 0.0002 | 5 | 0.0006 |
| 1,2-Dichloroethene | 17 | -- | -- | 5 | 0.02 |
| Acetone | 0.25 | -- | -- | -- | -- |
| Acetonitrile | 0.0 | -- | -- | -- | -- |
| Acrolein | 0.014 | -- | -- | -- | -- |
| Benzene | 0.084 | -- | -- | 0.5 | 0.005 |
| Carbon disulfide | 0.10 | -- | -- | -- | -- |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.19 | -- | -- | -- | -- |
| Isopropanol | 0.068 | 10 | 0.007 | -- | -- |
| Methyl ethyl ketone | 0.024 | -- | -- | -- | -- |
| Methylene chloride | 0.0024 | -- | -- | 2 | 0.001 |
| Propanal | 0.077 | -- | -- | -- | -- |
| Tert-Butyl alcohol (TBA) | 0.034 | -- | -- | -- | -- |
| Tetrachloroethylene | 560 | 100 | 6 | 0.2 | 0.3 |
| Tetrahydrofuran | 0.0069 | -- | -- | 4 | 0.0006 |
| Toluene | 0.013 | 200 | 0.00007 | 3 | 0 |
| Trichloroethylene | 42 | -- | -- | 0.01 | 7 |
| Area CPEC | | | | | |
| Herbicides | | | | | |
| 2,4,5-TP (Silvex) | No Data | -- | -- | -- | -- |
| 2-sec-Butyl-4,6-dinitrophenol (Dinoseb) | No Data | -- | -- | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthylene | No Data | 10 | -- | 5 | -- |
| Pesticides | | | | | |
| 4,4'-DDD | No Data | 0.9 | -- | 0.1 | -- |
| Aldrin | No Data | 1 | -- | 0.5 | -- |
| alpha-BHC | No Data | 10 | -- | 0.03 | -- |
| Chlordane, gamma | No Data | 0.2 | -- | 0.04 | -- |
| delta-BHC | No Data | 10 | -- | 0.03 | -- |
| Dieldrin | No Data | 1 | -- | 0.5 | -- |
| Endosulfan I | No Data | 10 | -- | 0.05 | -- |
| Endrin | No Data | -- | -- | 0.01 | -- |
| Heptachlor epoxide | No Data | 1 | -- | 0.007 | -- |
| Mirex | No Data | -- | -- | -- | -- |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Benzoic Acid | No Data | -- | -- | -- | -- |
| Di-n-butylphthalate | No Data | 200 | -- | 200 | -- |
| N-Nitrosodimethylamine | 0.067 | -- | -- | 20 | 0.003 |
| N-Nitrosodipropylamine | No Data | -- | -- | 20 | -- |
| N-Nitrosomethylethylamine | No Data | -- | -- | 20 | -- |
| N-Nitrosopyrrolidine | No Data | -- | -- | -- | -- |

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

| CPEC | A-Series Pond | | | | |
|--|-------------------------------------|---|------------------|---|------------------|
| | Soil ^a EPC (mg/kg) | Plant Toxicity Value ^b (mg/kg) | HQ (unitless) | Soil Invertebrate Toxicity Value ^b (mg/kg) | HQ (unitless) |
| Inorganics | | | | | |
| Barium | 160 | 500 | 0.3 | 330 | 0.5 |
| Beryllium | 0.0 | 10 | 0 | 40 | 0 |
| Cadmium | 21 | 32 | 0.7 | 140 | 0.1 |
| Chromium | 28 | 1 | 28 | 0.4 | 70 |
| Cobalt | 0.0 | 13 | 0 | 50 | 0 |
| Copper | 44 | 70 | 0.6 | 80 | 0.5 |
| Total Cyanide | 0.0 | -- | -- | 0.9 | 0 |
| Lead | 9.8 | 120 | 0.08 | 1700 | 0.006 |
| Manganese | 280 | 220 | 1 | 450 | 0.6 |
| Mercury | 0.040 | 0.3 | 0.1 | 0.1 | 0.4 |
| Molybdenum | 21 | 2 | 11 | 40 | 0.5 |
| Nickel | 164 | 38 | 4 | 280 | 0.6 |
| Selenium | 9.4 | 1 | 9 | 70 | 0.1 |
| Thallium | 0.51 | 1 | 0.5 | 1 | 0.5 |
| Tin | 47 | 50 | 0.9 | 50 | 0.9 |
| Vanadium | 0.0 | 2 | 0 | 2 | 0 |
| Zinc | 112 | 50 | 2 | 100 | 1 |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | -- | -- | -- | -- | -- |
| Dalapon | -- | -- | -- | -- | -- |
| MCPA | -- | -- | -- | -- | -- |
| MCPP | -- | -- | -- | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthene | 0.0 | 20 | 0 | 5 | 0 |
| Anthracene | 0.0 | 10 | 0 | 5 | 0 |
| Benzo(a)anthracene | 0.0 | 1 | 0 | 1 | 0 |
| Benzo(a)pyrene | 0.0 | 1 | 0 | 1 | 0 |
| Benzo(b)fluoranthene | 0.0 | 1 | 0 | 1 | 0 |
| Benzo(g,h,i)perylene | 0.0 | 1 | 0 | 1 | 0 |
| Benzo(k)fluoranthene | 0.0 | 1 | 0 | 1 | 0 |
| Chrysene | 0.0 | 1 | 0 | 1 | 0 |
| Fluoranthene | 0.0 | 1 | 0 | 1 | 0 |
| Fluorene | 0.0 | 10 | 0 | 5 | 0 |
| Indeno(1,2,3-c,d)pyrene | 0.0 | 1 | 0 | 1 | 0 |
| Naphthalene | 0.0039 | 10 | 0.0004 | 5 | 0.0008 |
| Pyrene | 0.0 | 1 | 0 | 10 | 0 |
| Total LMW PAH | 0.0039 | 10 | 0.0004 | 5 | 0.0008 |
| Total HMW PAH | 0.0 | 1 | 0 | 1 | 0 |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.0 | 40 | 0 | 1 | 0 |
| Sum of PCB Congeners | 0.00019 | 40 | 0.000005 | 1 | 0.0002 |
| Pesticides | | | | | |
| 4,4'-DDE | 0.0 | 0.9 | 0 | 0.1 | 0 |
| 4,4'-DDT | 0.0 | 0.9 | 0 | 0.1 | 0 |
| Total DDT | No Data | -- | 0 | -- | 0 |
| Hexachlorobenzene | 0.0 | 100 | 0 | 2 | 0 |
| Methoxychlor | 0.0 | -- | -- | -- | -- |

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

| CPEC | A-Series Pond | | | | |
|---|-------------------------------------|---|------------------|---|------------------|
| | Soil ^a EPC (mg/kg) | Plant Toxicity Value ^b (mg/kg) | HQ (unitless) | Soil Invertebrate Toxicity Value ^b (mg/kg) | HQ (unitless) |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Bis(2-ethylhexyl)phthalate | 0.0 | 200 | 0 | 200 | 0 |
| Diethylphthalate | 0.0 | 100 | 0 | 200 | 0 |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1,1-Trichloroethane | 0.0 | -- | -- | 5 | 0 |
| 1,1-Dichloroethane | 0.0 | -- | -- | 5 | 0 |
| 1,1-Dichloroethylene | 0.0 | 100 | 0 | 5 | 0 |
| 1,2-Dichloroethene | 0.0 | -- | -- | 5 | 0 |
| Acetone | No Data | -- | -- | -- | -- |
| Acetonitrile | 0.0 | -- | -- | -- | -- |
| Acrolein | 0.0 | -- | -- | -- | -- |
| Benzene | 0.0 | -- | -- | 0.5 | 0 |
| Carbon disulfide | 0.0 | -- | -- | -- | -- |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | No Data | -- | -- | -- | -- |
| Isopropanol | 0.0 | 10 | 0 | -- | -- |
| Methyl ethyl ketone | No Data | -- | -- | -- | -- |
| Methylene chloride | 0.0026 | -- | -- | 2 | 0.001 |
| Propanal | 0.0 | -- | -- | -- | -- |
| Tert-Butyl alcohol (TBA) | 0.0 | -- | -- | -- | -- |
| Tetrachloroethylene | 0.0 | 100 | 0 | 0.2 | 0 |
| Tetrahydrofuran | 0.0 | -- | -- | 4 | 0 |
| Toluene | 0.0 | 200 | 0 | 3 | 0 |
| Trichloroethylene | 0.0 | -- | -- | 0.01 | 0 |
| Area CPEC | | | | | |
| Herbicides | | | | | |
| 2,4,5-TP (Silvex) | NAC | -- | -- | -- | -- |
| 2-sec-Butyl-4,6-dinitrophenol (Dinoseb) | NAC | -- | -- | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthylene | NAC | 10 | -- | 5 | -- |
| Pesticides | | | | | |
| 4,4'-DDD | NAC | 0.9 | -- | 0.1 | -- |
| Aldrin | NAC | 1 | -- | 0.5 | -- |
| alpha-BHC | NAC | 10 | -- | 0.03 | -- |
| Chlordane, gamma | NAC | 0.2 | -- | 0.04 | -- |
| delta-BHC | NAC | 10 | -- | 0.03 | -- |
| Dieldrin | NAC | 1 | -- | 0.5 | -- |
| Endosulfan I | NAC | 10 | -- | 0.05 | -- |
| Endrin | NAC | -- | -- | 0.01 | -- |
| Heptachlor epoxide | NAC | 1 | -- | 0.007 | -- |
| Mirex | NAC | -- | -- | -- | -- |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Benzoic Acid | NAC | -- | -- | -- | -- |
| Di-n-butylphthalate | NAC | 200 | -- | 200 | -- |
| N-Nitrosodimethylamine | NAC | -- | -- | 20 | -- |
| N-Nitrosodipropylamine | NAC | -- | -- | 20 | -- |
| N-Nitrosomethylamine | NAC | -- | -- | 20 | -- |
| N-Nitrosopyrrolidine | NAC | -- | -- | -- | -- |

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

| CPEC | RCF Pond | | | | |
|--|-------------------------------------|---|------------------|---|------------------|
| | Soil ^a EPC (mg/kg) | Plant Toxicity Value ^b (mg/kg) | HQ (unitless) | Soil Invertebrate Toxicity Value ^b (mg/kg) | HQ (unitless) |
| Inorganics | | | | | |
| Barium | 750 | 500 | 2 | 330 | 2 |
| Beryllium | 0.0 | 10 | 0 | 40 | 0 |
| Cadmium | 3.8 | 32 | 0.1 | 140 | 0.03 |
| Chromium | 42 | 1 | 42 | 0.4 | 105 |
| Cobalt | 0.0 | 13 | 0 | 50 | 0 |
| Copper | 29 | 70 | 0.4 | 80 | 0.4 |
| Total Cyanide | 0.0 | -- | -- | 0.9 | 0 |
| Lead | 9.5 | 120 | 0.08 | 1700 | 0.006 |
| Manganese | 340 | 220 | 2 | 450 | 0.8 |
| Mercury | 0.050 | 0.3 | 0.2 | 0.1 | 0.5 |
| Molybdenum | 6.3 | 2 | 3 | 40 | 0.2 |
| Nickel | 59 | 38 | 2 | 280 | 0.2 |
| Selenium | 2.7 | 1 | 3 | 70 | 0.04 |
| Thallium | 0.29 | 1 | 0.3 | 1 | 0.3 |
| Tin | 40 | 50 | 0.8 | 50 | 0.8 |
| Vanadium | 0.0 | 2 | 0 | 2 | 0 |
| Zinc | 80 | 50 | 2 | 100 | 0.8 |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | -- | -- | -- | -- | -- |
| Dalapon | -- | -- | -- | -- | -- |
| MCPA | -- | -- | -- | -- | -- |
| MCPP | -- | -- | -- | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthene | 0.0 | 20 | 0 | 5 | 0 |
| Anthracene | 0.0 | 10 | 0 | 5 | 0 |
| Benzo(a)anthracene | 0.0 | 1 | 0 | 1 | 0 |
| Benzo(a)pyrene | 0.0 | 1 | 0 | 1 | 0 |
| Benzo(b)fluoranthene | 0.0 | 1 | 0 | 1 | 0 |
| Benzo(g,h,i)perylene | 0.0 | 1 | 0 | 1 | 0 |
| Benzo(k)fluoranthene | 0.0 | 1 | 0 | 1 | 0 |
| Chrysene | 0.0 | 1 | 0.009 | 1 | 0.01 |
| Fluoranthene | 0.0 | 1 | 0 | 1 | 0 |
| Fluorene | 0.0 | 10 | 0.0003 | 5 | 0.0005 |
| Indeno(1,2,3-c,d)pyrene | 0.0 | 1 | 0 | 1 | 0 |
| Naphthalene | 0.00078 | 10 | 0 | 5 | 0 |
| Pyrene | 0.0 | 1 | 0.01 | 10 | 0.002 |
| Total LMW PAH | 0.00078 | 10 | 0.0003 | 5 | 0.0005 |
| Total HMW PAH | 0.0 | 1 | 0.02 | 1 | 0.03 |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.0 | 40 | 0.002 | 1 | 0.1 |
| Sum of PCB Congeners | 0.00019 | 40 | 0.004 | 1 | 0.2 |
| Pesticides | | | | | |
| 4,4'-DDE | 0.0 | 0.9 | 0 | 0.1 | 0 |
| 4,4'-DDT | 0.0 | 0.9 | 0.009 | 0.1 | 0.08 |
| Total DDT | 0.0 | -- | 0.009 | -- | 0.08 |
| Hexachlorobenzene | 0.0 | 100 | 0.00001 | 2 | 0.0005 |
| Methoxychlor | -- | -- | -- | -- | -- |

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

| CPEC | RCF Pond | | | | | |
|---|-------------------------------------|---|------------------|---|------------------|--|
| | Soil ^a EPC (mg/kg) | Plant Toxicity Value ^b (mg/kg) | HQ (unitless) | Soil Invertebrate Toxicity Value ^b (mg/kg) | HQ (unitless) | |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | | |
| Bis(2-ethylhexyl)phthalate | 0.0 | 200 | 0 | 200 | 0 | |
| Diethylphthalate | 0.0 | 100 | 0 | 200 | 0 | |
| Volatile Organic Compounds (VOCs) | | | | | | |
| 1,1,1-Trichloroethane | 0.0 | -- | -- | 5 | 0 | |
| 1,1-Dichloroethane | 0.0 | -- | -- | 5 | 0.002 | |
| 1,1-Dichloroethylene | 0.0 | 100 | 0 | 5 | 0 | |
| 1,2-Dichloroethene | 0.0 | -- | -- | 5 | 0 | |
| Acetone | -- | -- | -- | -- | -- | |
| Acetonitrile | -- | -- | -- | -- | -- | |
| Acrolein | -- | -- | -- | -- | -- | |
| Benzene | 0.0 | -- | -- | 0.5 | 0 | |
| Carbon disulfide | -- | -- | -- | -- | -- | |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | -- | -- | -- | -- | -- | |
| Isopropanol | -- | 10 | 0 | -- | -- | |
| Methyl ethyl ketone | -- | -- | -- | -- | -- | |
| Methylene chloride | 0.0013 | -- | -- | 2 | 0.001 | |
| Propanal | -- | -- | -- | -- | -- | |
| Tert-Butyl alcohol (TBA) | -- | -- | -- | -- | -- | |
| Tetrachloroethylene | 0.0 | 100 | 0 | 0.2 | 0 | |
| Tetrahydrofuran | 0.0 | -- | -- | 4 | 0 | |
| Toluene | 0.0 | 200 | 0 | 3 | 0 | |
| Trichloroethylene | 0.0 | -- | -- | 0.01 | 0 | |
| Area CPEC | | | | | | |
| Herbicides | | | | | | |
| 2,4,5-TP (Silvex) | -- | -- | -- | -- | -- | |
| 2-sec-Butyl-4,6-dinitrophenol (Dinoseb) | -- | -- | -- | -- | -- | |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | | |
| Acenaphthylene | -- | 10 | -- | 5 | -- | |
| Pesticides | | | | | | |
| 4,4'-DDD | -- | 0.9 | -- | 0.1 | -- | |
| Aldrin | -- | 1 | -- | 0.5 | -- | |
| alpha-BHC | -- | 10 | -- | 0.03 | -- | |
| Chlordane, gamma | -- | 0.2 | -- | 0.04 | -- | |
| delta-BHC | -- | 10 | -- | 0.03 | -- | |
| Dieldrin | -- | 1 | -- | 0.5 | -- | |
| Endosulfan I | -- | 10 | -- | 0.05 | -- | |
| Endrin | -- | -- | -- | 0.01 | -- | |
| Heptachlor epoxide | -- | 1 | -- | 0.007 | -- | |
| Mirex | -- | -- | -- | -- | -- | |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | | |
| Benzoic Acid | -- | -- | -- | -- | -- | |
| Di-n-butylphthalate | -- | 200 | -- | 200 | -- | |
| N-Nitrosodimethylamine | -- | -- | -- | 20 | -- | |
| N-Nitrosodipropylamine | -- | -- | -- | 20 | -- | |
| N-Nitrosomethylamine | -- | -- | -- | 20 | -- | |
| N-Nitrosopyrrolidine | -- | -- | -- | -- | -- | |

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

| CPEC | Pond A-5 | | | | |
|--|-------------------------------------|---|------------------|---|------------------|
| | Soil ^a EPC (mg/kg) | Plant Toxicity Value ^b (mg/kg) | HQ (unitless) | Soil Invertebrate Toxicity Value ^b (mg/kg) | HQ (unitless) |
| Inorganics | | | | | |
| Barium | 4400 | 500 | 9 | 330 | 13 |
| Beryllium | 0.0 | 10 | 0 | 40 | 0 |
| Cadmium | 26 | 32 | 0.8 | 140 | 0.2 |
| Chromium | 76 | 1 | 76 | 0.4 | 190 |
| Cobalt | 0.0 | 13 | 0 | 50 | 0 |
| Copper | 56 | 70 | 0.8 | 80 | 0.7 |
| Total Cyanide | 0.0 | -- | -- | 0.9 | 0 |
| Lead | 0.0 | 120 | 0 | 1700 | 0 |
| Manganese | 430 | 220 | 2 | 450 | 1 |
| Mercury | 0.0 | 0.3 | 0 | 0.1 | 0 |
| Molybdenum | 15 | 2 | 8 | 40 | 0.4 |
| Nickel | 180 | 38 | 5 | 280 | 0.6 |
| Selenium | 7.0 | 1 | 7 | 70 | 0.1 |
| Thallium | 0.0 | 1 | 0 | 1 | 0 |
| Tin | 0.0 | 50 | 0 | 50 | 0 |
| Vanadium | 0.0 | 2 | 0 | 2 | 0 |
| Zinc | 110 | 50 | 2 | 100 | 1 |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | -- | -- | -- | -- | -- |
| Dalapon | -- | -- | -- | -- | -- |
| MCPA | -- | -- | -- | -- | -- |
| MCPP | -- | -- | -- | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthene | 0.0 | 20 | 0 | 5 | 0 |
| Anthracene | 0.0 | 10 | 0 | 5 | 0 |
| Benzo(a)anthracene | 0.0 | 1 | 0 | 1 | 0 |
| Benzo(a)pyrene | 0.0 | 1 | 0 | 1 | 0 |
| Benzo(b)fluoranthene | 0.0 | 1 | 0 | 1 | 0 |
| Benzo(g,h,i)perylene | 0.0 | 1 | 0 | 1 | 0 |
| Benzo(k)fluoranthene | 0.0 | 1 | 0 | 1 | 0 |
| Chrysene | 0.011 | 1 | 0 | 1 | 0 |
| Fluoranthene | 0.0 | 1 | 0 | 1 | 0 |
| Fluorene | 0.00054 | 10 | 0 | 5 | 0 |
| Indeno(1,2,3-c,d)pyrene | 0.0 | 1 | 0 | 1 | 0 |
| Naphthalene | 0.0 | 10 | 0.0009 | 5 | 0.002 |
| Pyrene | 0.0017 | 1 | 0 | 10 | 0 |
| Total LMW PAH | 0.00054 | 10 | 0.0009 | 5 | 0.002 |
| Total HMW PAH | 0.028 | 1 | 0 | 1 | 0 |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.099 | 40 | 0 | 1 | 0 |
| Sum of PCB Congeners | 0.16 | 40 | 0.0001 | 1 | 0.004 |
| Pesticides | | | | | |
| 4,4'-DDE | 0.0 | 0.9 | 0 | 0.1 | 0 |
| 4,4'-DDT | 0.081 | 0.9 | 0 | 0.1 | 0 |
| Total DDT | 0.081 | -- | 0 | -- | 0 |
| Hexachlorobenzene | 0.00048 | 100 | 0 | 2 | 0 |
| Methoxychlor | -- | -- | -- | -- | -- |

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

| CPEC | Pond A-5 | | | | | |
|---|-------------------------------------|---|------------------|---|------------------|--|
| | Soil ^a EPC (mg/kg) | Plant Toxicity Value ^b (mg/kg) | HQ (unitless) | Soil Invertebrate Toxicity Value ^b (mg/kg) | HQ (unitless) | |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | | |
| Bis(2-ethylhexyl)phthalate | 0.0 | 200 | 0 | 200 | 0 | |
| Diethylphthalate | 0.0 | 100 | 0 | 200 | 0 | |
| Volatile Organic Compounds (VOCs) | | | | | | |
| 1,1,1-Trichloroethane | 0.0 | -- | -- | 5 | 0 | |
| 1,1-Dichloroethane | 0.0024 | -- | -- | 5 | 0.01 | |
| 1,1-Dichloroethylene | 0.0 | 100 | 0 | 5 | 0 | |
| 1,2-Dichloroethene | 0.0 | -- | -- | 5 | 0.001 | |
| Acetone | -- | -- | -- | -- | -- | |
| Acetonitrile | -- | -- | -- | -- | -- | |
| Acrolein | -- | -- | -- | -- | -- | |
| Benzene | 0.0 | -- | -- | 0.5 | 0.05 | |
| Carbon disulfide | -- | -- | -- | -- | -- | |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | -- | -- | -- | -- | -- | |
| Isopropanol | -- | 10 | 0 | -- | -- | |
| Methyl ethyl ketone | -- | -- | -- | -- | -- | |
| Methylene chloride | 0.0015 | -- | -- | 2 | 0.007 | |
| Propanal | -- | -- | -- | -- | -- | |
| Tert-Butyl alcohol (TBA) | -- | -- | -- | -- | -- | |
| Tetrachloroethylene | 0.0 | 100 | 0 | 0.2 | 0 | |
| Tetrahydrofuran | 0.0 | -- | -- | 4 | 0.001 | |
| Toluene | 0.0 | 200 | 0 | 3 | 0 | |
| Trichloroethylene | 0.0 | -- | -- | 0.01 | 0 | |
| Area CPEC | | | | | | |
| Herbicides | | | | | | |
| 2,4,5-TP (Silvex) | -- | -- | -- | -- | -- | |
| 2-sec-Butyl-4,6-dinitrophenol (Dinoseb) | -- | -- | -- | -- | -- | |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | | |
| Acenaphthylene | -- | 10 | -- | 5 | -- | |
| Pesticides | | | | | | |
| 4,4'-DDD | -- | 0.9 | -- | 0.1 | -- | |
| Aldrin | -- | 1 | -- | 0.5 | -- | |
| alpha-BHC | -- | 10 | -- | 0.03 | -- | |
| Chlordane, gamma | -- | 0.2 | -- | 0.04 | -- | |
| delta-BHC | -- | 10 | -- | 0.03 | -- | |
| Dieldrin | -- | 1 | -- | 0.5 | -- | |
| Endosulfan I | -- | 10 | -- | 0.05 | -- | |
| Endrin | -- | -- | -- | 0.01 | -- | |
| Heptachlor epoxide | -- | 1 | -- | 0.007 | -- | |
| Mirex | -- | -- | -- | -- | -- | |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | | |
| Benzoic Acid | -- | -- | -- | -- | -- | |
| Di-n-butylphthalate | -- | 200 | -- | 200 | -- | |
| N-Nitrosodimethylamine | -- | -- | -- | 20 | -- | |
| N-Nitrosodipropylamine | -- | -- | -- | 20 | -- | |
| N-Nitrosomethylamine | -- | -- | -- | 20 | -- | |
| N-Nitrosopyrrolidine | -- | -- | -- | -- | -- | |

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

| CPEC | Pond 13 | | | | |
|--|-------------------------------------|---|------------------|---|------------------|
| | Soil ^a EPC (mg/kg) | Plant Toxicity Value ^b (mg/kg) | HQ (unitless) | Soil Invertebrate Toxicity Value ^b (mg/kg) | HQ (unitless) |
| Inorganics | | | | | |
| Barium | 85 | 500 | 0.2 | 330 | 0.3 |
| Beryllium | 0.0 | 10 | 0 | 40 | 0 |
| Cadmium | 4.8 | 32 | 0.2 | 140 | 0.03 |
| Chromium | 27 | 1 | 27 | 0.4 | 68 |
| Cobalt | 0.0 | 13 | 0 | 50 | 0 |
| Copper | 20 | 70 | 0.3 | 80 | 0.2 |
| Total Cyanide | 0.0 | -- | -- | 0.9 | 0 |
| Lead | 8.6 | 120 | 0.07 | 1700 | 0.005 |
| Manganese | 180 | 220 | 0.8 | 450 | 0.4 |
| Mercury | 0.050 | 0.3 | 0.2 | 0.1 | 0.5 |
| Molybdenum | 0.0 | 2 | 0 | 40 | 0 |
| Nickel | 86 | 38 | 2 | 280 | 0.3 |
| Selenium | 3.1 | 1 | 3 | 70 | 0.04 |
| Thallium | 0.0 | 1 | 0 | 1 | 0 |
| Tin | 69 | 50 | 1 | 50 | 1 |
| Vanadium | 0.0 | 2 | 0 | 2 | 0 |
| Zinc | 72 | 50 | 1 | 100 | 0.7 |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | -- | -- | -- | -- | -- |
| Dalapon | -- | -- | -- | -- | -- |
| MCPA | -- | -- | -- | -- | -- |
| MCPP | -- | -- | -- | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthene | 0.0 | 20 | 0 | 5 | 0 |
| Anthracene | 0.0 | 10 | 0 | 5 | 0 |
| Benzo(a)anthracene | 0.0 | 1 | 0 | 1 | 0 |
| Benzo(a)pyrene | 0.0 | 1 | 0 | 1 | 0 |
| Benzo(b)fluoranthene | 0.0 | 1 | 0 | 1 | 0 |
| Benzo(g,h,i)perylene | 0.0 | 1 | 0 | 1 | 0 |
| Benzo(k)fluoranthene | 0.0 | 1 | 0 | 1 | 0 |
| Chrysene | 0.0 | 1 | 0 | 1 | 0 |
| Fluoranthene | 0.0 | 1 | 0 | 1 | 0 |
| Fluorene | 0.0 | 10 | 0 | 5 | 0 |
| Indeno(1,2,3-c,d)pyrene | 0.0 | 1 | 0 | 1 | 0 |
| Naphthalene | 0.0018 | 10 | 0.002 | 5 | 0.003 |
| Pyrene | 0.0 | 1 | 0 | 10 | 0 |
| Total LMW PAH | 0.0018 | 10 | 0.002 | 5 | 0.003 |
| Total HMW PAH | 0.0 | 1 | 0 | 1 | 0 |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.0 | 40 | 0 | 1 | 0 |
| Sum of PCB Congeners | 0.0045 | 40 | 0.00009 | 1 | 0.003 |
| Pesticides | | | | | |
| 4,4'-DDE | 0.0 | 0.9 | 0 | 0.1 | 0 |
| 4,4'-DDT | 0.0 | 0.9 | 0 | 0.1 | 0 |
| Total DDT | 0.0 | -- | 0 | -- | 0 |
| Hexachlorobenzene | 0.0 | 100 | 0 | 2 | 0 |
| Methoxychlor | -- | -- | -- | -- | -- |

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

| CPEC | Pond 13 | | | | | |
|---|-------------------------------------|---|------------------|---|------------------|--|
| | Soil ^a EPC (mg/kg) | Plant Toxicity Value ^b (mg/kg) | HQ (unitless) | Soil Invertebrate Toxicity Value ^b (mg/kg) | HQ (unitless) | |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | | |
| Bis(2-ethylhexyl)phthalate | 0.0 | 200 | 0 | 200 | 0 | |
| Diethylphthalate | 0.0 | 100 | 0 | 200 | 0 | |
| Volatile Organic Compounds (VOCs) | | | | | | |
| 1,1,1-Trichloroethane | 0.0 | -- | -- | 5 | 0 | |
| 1,1-Dichloroethane | 0.010 | -- | -- | 5 | 0 | |
| 1,1-Dichloroethylene | 0.0 | 100 | 0 | 5 | 0 | |
| 1,2-Dichloroethene | 0.0012 | -- | -- | 5 | 0 | |
| Acetone | -- | -- | -- | -- | -- | |
| Acetonitrile | -- | -- | -- | -- | -- | |
| Acrolein | -- | -- | -- | -- | -- | |
| Benzene | 0.054 | -- | -- | 0.5 | 0 | |
| Carbon disulfide | -- | -- | -- | -- | -- | |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | -- | -- | -- | -- | -- | |
| Isopropanol | -- | 10 | 0 | -- | -- | |
| Methyl ethyl ketone | -- | -- | -- | -- | -- | |
| Methylene chloride | 0.0070 | -- | -- | 2 | 0 | |
| Propanal | -- | -- | -- | -- | -- | |
| Tert-Butyl alcohol (TBA) | -- | -- | -- | -- | -- | |
| Tetrachloroethylene | 0.0 | 100 | 0 | 0.2 | 0 | |
| Tetrahydrofuran | 0.0011 | -- | -- | 4 | 0 | |
| Toluene | 0.0 | 200 | 0 | 3 | 0 | |
| Trichloroethylene | 0.0 | -- | -- | 0.01 | 0 | |
| Area CPEC | | | | | | |
| Herbicides | | | | | | |
| 2,4,5-TP (Silvex) | -- | -- | -- | -- | -- | |
| 2-sec-Butyl-4,6-dinitrophenol (Dinoseb) | -- | -- | -- | -- | -- | |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | | |
| Acenaphthylene | -- | 10 | -- | 5 | -- | |
| Pesticides | | | | | | |
| 4,4'-DDD | -- | 0.9 | -- | 0.1 | -- | |
| Aldrin | -- | 1 | -- | 0.5 | -- | |
| alpha-BHC | -- | 10 | -- | 0.03 | -- | |
| Chlordane, gamma | -- | 0.2 | -- | 0.04 | -- | |
| delta-BHC | -- | 10 | -- | 0.03 | -- | |
| Dieldrin | -- | 1 | -- | 0.5 | -- | |
| Endosulfan I | -- | 10 | -- | 0.05 | -- | |
| Endrin | -- | -- | -- | 0.01 | -- | |
| Heptachlor epoxide | -- | 1 | -- | 0.007 | -- | |
| Mirex | -- | -- | -- | -- | -- | |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | | |
| Benzoic Acid | -- | -- | -- | -- | -- | |
| Di-n-butylphthalate | -- | 200 | -- | 200 | -- | |
| N-Nitrosodimethylamine | -- | -- | -- | 20 | -- | |
| N-Nitrosodipropylamine | -- | -- | -- | 20 | -- | |
| N-Nitrosomethylamine | -- | -- | -- | 20 | -- | |
| N-Nitrosopyrrolidine | -- | -- | -- | -- | -- | |

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

| CPEC | Pond 18 | | | | |
|--|-------------------------------------|---|------------------|---|------------------|
| | Soil ^a EPC (mg/kg) | Plant Toxicity Value ^b (mg/kg) | HQ (unitless) | Soil Invertebrate Toxicity Value ^b (mg/kg) | HQ (unitless) |
| Inorganics | | | | | |
| Barium | 200 | 500 | 0.4 | 330 | 0.6 |
| Beryllium | 0.0 | 10 | 0 | 40 | 0 |
| Cadmium | 8.1 | 32 | 0.3 | 140 | 0.06 |
| Chromium | 55 | 1 | 55 | 0.4 | 138 |
| Cobalt | 0.0 | 13 | 0 | 50 | 0 |
| Copper | 55 | 70 | 0.8 | 80 | 0.7 |
| Total Cyanide | 0.0 | -- | -- | 0.9 | 0 |
| Lead | 12 | 120 | 0.1 | 1700 | 0.007 |
| Manganese | 130 | 220 | 0.6 | 450 | 0.3 |
| Mercury | 0.048 | 0.3 | 0.2 | 0.1 | 0.5 |
| Molybdenum | 11 | 2 | 6 | 40 | 0.3 |
| Nickel | 120 | 38 | 3 | 280 | 0.4 |
| Selenium | 15 | 1 | 15 | 70 | 0.2 |
| Thallium | 0.67 | 1 | 0.7 | 1 | 0.7 |
| Tin | 62 | 50 | 1 | 50 | 1 |
| Vanadium | 0.0 | 2 | 0 | 2 | 0 |
| Zinc | 90 | 50 | 2 | 100 | 0.9 |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | -- | -- | -- | -- | -- |
| Dalapon | -- | -- | -- | -- | -- |
| MCPA | -- | -- | -- | -- | -- |
| MCPP | -- | -- | -- | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthene | 0.0 | 20 | 0 | 5 | 0 |
| Anthracene | 0.0 | 10 | 0 | 5 | 0 |
| Benzo(a)anthracene | 0.0 | 1 | 0 | 1 | 0 |
| Benzo(a)pyrene | 0.0 | 1 | 0 | 1 | 0 |
| Benzo(b)fluoranthene | 0.0 | 1 | 0 | 1 | 0 |
| Benzo(g,h,i)perylene | 0.0 | 1 | 0 | 1 | 0 |
| Benzo(k)fluoranthene | 0.0 | 1 | 0 | 1 | 0 |
| Chrysene | 0.0 | 1 | 0.002 | 1 | 0.002 |
| Fluoranthene | 0.0 | 1 | 0 | 1 | 0 |
| Fluorene | 0.0 | 10 | 0 | 5 | 0 |
| Indeno(1,2,3-c,d)pyrene | 0.0 | 1 | 0 | 1 | 0 |
| Naphthalene | 0.0034 | 10 | 0.0007 | 5 | 0.001 |
| Pyrene | 0.0 | 1 | 0 | 10 | 0 |
| Total LMW PAH | 0.0034 | 10 | 0.0007 | 5 | 0.001 |
| Total HMW PAH | 0.0 | 1 | 0.002 | 1 | 0.002 |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.0 | 40 | 0 | 1 | 0 |
| Sum of PCB Congeners | 0.0035 | 40 | 0.00008 | 1 | 0.003 |
| Pesticides | | | | | |
| 4,4'-DDE | 0.0 | 0.9 | 0 | 0.1 | 0 |
| 4,4'-DDT | 0.0 | 0.9 | 0 | 0.1 | 0 |
| Total DDT | 0.0 | -- | 0 | -- | 0 |
| Hexachlorobenzene | 0.0 | 100 | 0 | 2 | 0 |
| Methoxychlor | -- | -- | -- | -- | -- |

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

| CPEC | Pond 18 | | | | |
|---|-------------------------------------|---|------------------|---|------------------|
| | Soil ^a EPC (mg/kg) | Plant Toxicity Value ^b (mg/kg) | HQ (unitless) | Soil Invertebrate Toxicity Value ^b (mg/kg) | HQ (unitless) |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Bis(2-ethylhexyl)phthalate | 0.0 | 200 | 0 | 200 | 0 |
| Diethylphthalate | 0.0 | 100 | 0 | 200 | 0 |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1,1-Trichloroethane | 0.0 | -- | -- | 5 | 0 |
| 1,1-Dichloroethane | 0.0 | -- | -- | 5 | 0 |
| 1,1-Dichloroethylene | 0.0 | 100 | 0 | 5 | 0 |
| 1,2-Dichloroethene | 0.0 | -- | -- | 5 | 0 |
| Acetone | -- | -- | -- | -- | -- |
| Acetonitrile | -- | -- | -- | -- | -- |
| Acrolein | -- | -- | -- | -- | -- |
| Benzene | 0.0 | -- | -- | 0.5 | 0 |
| Carbon disulfide | -- | -- | -- | -- | -- |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | -- | -- | -- | -- | -- |
| Isopropanol | -- | 10 | 0 | -- | -- |
| Methyl ethyl ketone | -- | -- | -- | -- | -- |
| Methylene chloride | 0.0 | -- | -- | 2 | 0.003 |
| Propanal | -- | -- | -- | -- | -- |
| Tert-Butyl alcohol (TBA) | -- | -- | -- | -- | -- |
| Tetrachloroethylene | 0.0 | 100 | 0 | 0.2 | 0 |
| Tetrahydrofuran | 0.0 | -- | -- | 4 | 0 |
| Toluene | 0.0 | 200 | 0 | 3 | 0 |
| Trichloroethylene | 0.0 | -- | -- | 0.01 | 0 |
| Area CPEC | | | | | |
| Herbicides | | | | | |
| 2,4,5-TP (Silvex) | -- | -- | -- | -- | -- |
| 2-sec-Butyl-4,6-dinitrophenol (Dinoseb) | -- | -- | -- | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthylene | -- | 10 | -- | 5 | -- |
| Pesticides | | | | | |
| 4,4'-DDD | -- | 0.9 | -- | 0.1 | -- |
| Aldrin | -- | 1 | -- | 0.5 | -- |
| alpha-BHC | -- | 10 | -- | 0.03 | -- |
| Chlordane, gamma | -- | 0.2 | -- | 0.04 | -- |
| delta-BHC | -- | 10 | -- | 0.03 | -- |
| Dieldrin | -- | 1 | -- | 0.5 | -- |
| Endosulfan I | -- | 10 | -- | 0.05 | -- |
| Endrin | -- | -- | -- | 0.01 | -- |
| Heptachlor epoxide | -- | 1 | -- | 0.007 | -- |
| Mirex | -- | -- | -- | -- | -- |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Benzoic Acid | -- | -- | -- | -- | -- |
| Di-n-butylphthalate | -- | 200 | -- | 200 | -- |
| N-Nitrosodimethylamine | -- | -- | -- | 20 | -- |
| N-Nitrosodipropylamine | -- | -- | -- | 20 | -- |
| N-Nitrosomethylamine | -- | -- | -- | 20 | -- |
| N-Nitrosopyrrolidine | -- | -- | -- | -- | -- |

Table U.A5-7
Risk Estimates for Plants and Soil Invertebrates in Terrestrial Exposure Units
Based on Maximum Concentrations

CPEC = Constituent of Potential Ecological Concern

EPC = Exposure Point Concentration

HMW = High Molecular Weight

HQ = Hazard Quotient (unitless)

LMW = Low Molecular Weight

Total DDT = Sum of DDD, DDE, DDT

Total HMW PAH = Sum of the HMW PAH

Total LMW PAH = Sum of the LMW PAH

NA = Not Applicable

No Data = CPEC was not analyzed in the sample

"--" = in Screening Value column, compound not a CPEC in the matrix, or Screening Value not available. In HQ column, HQ not calculated.

A soil value of 0.0 indicates CPEC was not detected, or compound was not a CPEC in the matrix.

Soil is surface values (0-0.5 ft.)

mg/kg, dw = milligrams per kilogram, dry weight

HQ > 1

^aSoil is surface values (0-0.5 feet below ground surface [bgs]).

^b From Table U5-1 of the ERA (Appendix U) and Attachment 2.

Table U.A5-8
Risk Estimates for Sediment-Dwelling Invertebrates in Sitewide Aquatic Areas
Based on Maximum Concentrations

| CPEC | Sitewide (Pondwide) | | | | |
|--|---|---|------------------|--|------------------|
| | EPC Sediment ^b (mg/kg) | Selected Low Screening Value ^c (mg/kg) | HQ (unitless) | Selected High Screening Value ^c (mg/kg) | HQ (unitless) |
| Inorganics^a | | | | | |
| Barium | 4400 | -- | -- | -- | -- |
| Chromium | 76 | 43 | 2 | 111 | 0.7 |
| Manganese | 430 | 460 | 0.9 | 1100 | 0.4 |
| Mercury | 0.050 | 0.18 | 0.3 | 1.1 | 0.05 |
| Molybdenum | 21 | -- | -- | -- | -- |
| Selenium | 15 | 2.5 | 6 | 4.0 | 4 |
| Thallium | 0.67 | -- | -- | -- | -- |
| Tin | 69 | -- | -- | -- | -- |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.10 | -- | -- | -- | -- |
| Dichlorprop | 0.020 | 3.2 | 0.006 | -- | -- |
| MCPP | 3.1 | 0.0020 | 1550 | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| 2-Methylnaphthalene | 0.0 | 0.18 | 0 | 0.56 | 0 |
| Benzo(a)anthracene | 0.0 | 0.11 | 0 | 1.1 | 0 |
| Benzo(a)pyrene | 0.0 | 0.15 | 0 | 1.5 | 0 |
| Benzo(b)fluoranthene | 0.0 | 10 | 0 | -- | -- |
| Benzo(g,h,i)perylene | 0.0 | 0.17 | 0 | 3.2 | 0 |
| Chrysene | 0.011 | 0.17 | 0.07 | 1.3 | 0.009 |
| Fluoranthene | 0.0 | 0.42 | 0 | 2.2 | 0 |
| Fluorene | 0.0027 | 0.077 | 0.03 | 0.54 | 0.005 |
| Indeno(1,2,3-c,d)pyrene | 0.0 | 0.20 | 0 | 3.2 | 0 |
| Naphthalene | 0.017 | 0.18 | 0.1 | 0.56 | 0.03 |
| Phenanthrene | 0.0 | 0.20 | 0 | 1.2 | 0 |
| Pyrene | 0.017 | 0.20 | 0.09 | 1.5 | 0.01 |
| Total LMW PAH | 0.020 | 0.18 | 0.1 | 0.56 | 0.04 |
| Total HMW PAH | 0.028 | 0.15 | 0.2 | 1.5 | 0.02 |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.099 | 0.060 | 2 | 0.68 | 0.1 |
| Sum of PCB Congeners | 0.16 | 0.060 | 3 | 0.68 | 0.2 |
| Pesticides | | | | | |
| 4,4'-DDD | 0.012 | 0.0049 | 2 | 0.028 | 0.4 |
| 4,4'-DDE | 0.0 | 0.0032 | 0 | 0.031 | 0 |
| 4,4'-DDT | 0.0081 | 0.0042 | 2 | 0.063 | 0.1 |
| Total DDT | No Data | -- | 4 | -- | 0.6 |
| Chlordane, alpha | 0.0 | 0.0032 | 0 | 0.018 | 0 |
| Endosulfan I | 0.0 | 0.0010 | 0 | 0.0033 | 0 |
| Endosulfan II | 0.0 | 0.0010 | 0 | 0.0019 | 0 |
| Endosulfan sulfate | 0.0089 | 0.0010 | 9 | 0.035 | 0.3 |
| Endrin | 0.0 | 0.0022 | 0 | 0.21 | 0 |
| Heptachlor | 0.0 | 0.0025 | 0 | 0.016 | 0 |
| Hexachlorobenzene | 0.00095 | 0.020 | 0.05 | 0.24 | 0.004 |
| Kepone | 0.0 | 0.0033 | 0 | -- | -- |

Table U.A5-8
Risk Estimates for Sediment-Dwelling Invertebrates in Sitewide Aquatic Areas
Based on Maximum Concentrations

| CPEC | Sitewide (Pondwide) | | | | |
|---|---|---|------------------|--|------------------|
| | EPC Sediment ^b (mg/kg) | Selected Low Screening Value ^c (mg/kg) | HQ (unitless) | Selected High Screening Value ^c (mg/kg) | HQ (unitless) |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1-Dichloroethane | 0.052 | 0.00058 | 90 | -- | -- |
| 1,2-Dichloroethene | 0.0058 | -- | -- | -- | -- |
| Acetone | 0.065 | 0.0099 | 7 | 0.057 | 1 |
| Benzene | 0.027 | 0.14 | 0.2 | 1.0 | 0.03 |
| Carbon disulfide | 0.15 | 0.024 | 6 | -- | -- |
| Diisopropyl ether | 0.0040 | -- | -- | -- | -- |
| Ethylbenzene | 0.0 | 0.18 | 0 | 3.0 | 0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | No Data | -- | -- | -- | -- |
| Methyl ethyl ketone | 0.0 | 0.042 | 0 | -- | -- |
| Methyl isobutyl ketone (MIBK) | 0.0 | 0.025 | 0 | -- | -- |
| Methylcyclopentane | 0.28 | -- | -- | -- | -- |
| Methylene chloride | 0.014 | 0.16 | 0.09 | 20 | 0.0007 |
| Propanal | 0.0 | -- | -- | -- | -- |
| Tetrahydrofuran | 0.0042 | -- | -- | -- | -- |
| Trichloroethylene | 0.0 | 0.11 | 0 | 13 | 0 |

CPEC = Constituent of Potential Ecological Concern

HQ = Hazard Quotient (unitless)

Total LMW PAH = Sum of the LMW PAH

Total HMW PAH = Sum of the HMW PAH

Total DDT = Sum of DDD, DDE, DDT

NA = Not Applicable

EPC = Exposure Point Concentration

No Data = CPEC was not analyzed in the sample

-- = in TRV column, compound not a CPEC in the matrix, or Screening Level not available. In HQ column, HQ not calculated.

A EPC value of 0.0 indicates CPEC was not detected, or compound was not a CPEC in the matrix.

Sediment is surface values (0-0.5 ft.)

mg/kg, dw = milligrams per kilogram, dry weight

HQ > 1

^a The sediment CPECs cadmium, copper, lead, nickel, and zinc were evaluated separately using Simultaneously Extracted Metals- Acid Volatile Sulfide (SEM-AVS) methodologies. AVS concentrations exceeded SEM concentrations for these CPECs indicating that the metals are bound to AVS and not available to aquatic receptors. Consequently, these CPECs are not included in this risk estimation.

Table U.A5-9
Risk Estimates for Sediment-Dwelling Invertebrates in Stormwater Impoundments
Based on Maximum Concentrations

| CPEC ^a | Stormwater Impoundments ^b | | | | |
|--|---|---|------------------|--|------------------|
| | EPC Sediment ^c (mg/kg) | Selected Low Screening Value ^d (mg/kg) | HQ (unitless) | Selected High Screening Value ^d (mg/kg) | HQ (unitless) |
| Inorganics^a | | | | | |
| Barium | 750 | -- | -- | -- | -- |
| Chromium | 42 | 43 | 1 | 111 | 0.4 |
| Manganese | 340 | 460 | 0.7 | 1100 | 0.3 |
| Mercury | 0.050 | 0.18 | 0.3 | 1.1 | 0.05 |
| Molybdenum | 21 | -- | -- | -- | -- |
| Selenium | 9.4 | 2.5 | 4 | 4.0 | 2 |
| Thallium | 0.51 | -- | -- | -- | -- |
| Tin | 69 | -- | -- | -- | -- |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.10 | -- | -- | -- | -- |
| Dichlorprop | 0.020 | 3.2 | 0.006 | -- | -- |
| MCPP | 1.0 | 0.0020 | 500 | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| 2-Methylnaphthalene | 0.0 | 0.18 | 0 | 0.56 | 0 |
| Benzo(a)anthracene | 0.0 | 0.11 | 0 | 1.1 | 0 |
| Benzo(a)pyrene | 0.0 | 0.15 | 0 | 1.5 | 0 |
| Benzo(b)fluoranthene | 0.0 | 10 | 0 | -- | -- |
| Benzo(g,h,i)perylene | 0.0 | 0.17 | 0 | 3.2 | 0 |
| Chrysene | 0.011 | 0.17 | 0.07 | 1.3 | 0.009 |
| Fluoranthene | 0.0 | 0.42 | 0 | 2.2 | 0 |
| Fluorene | 0.0027 | 0.077 | 0.03 | 0.54 | 0.005 |
| Indeno(1,2,3-c,d)pyrene | 0.0 | 0.20 | 0 | 3.2 | 0 |
| Naphthalene | 0.017 | 0.18 | 0.1 | 0.56 | 0.03 |
| Phenanthrene | 0.0 | 0.20 | 0 | 1.2 | 0 |
| Pyrene | 0.017 | 0.20 | 0.09 | 1.5 | 0.01 |
| Total LMW PAH | 0.020 | 0.18 | 0.1 | 0.56 | 0.04 |
| Total HMW PAH | 0.028 | 0.15 | 0.2 | 1.5 | 0.02 |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.099 | 0.060 | 2 | 0.68 | 0.1 |
| Sum of PCB Congeners | 0.16 | 0.060 | 3 | 0.68 | 0.2 |
| Pesticides | | | | | |
| 4,4'-DDD | 0.012 | 0.0049 | 2 | 0.028 | 0.4 |
| 4,4'-DDE | 0.0 | 0.0032 | 0 | 0.031 | 0 |
| 4,4'-DDT | 0.0081 | 0.0042 | 2 | 0.063 | 0.1 |
| Total DDT | No Data | -- | 4 | -- | 0.6 |
| Chlordane, alpha | 0.0 | 0.0032 | 0 | 0.018 | 0 |
| Endosulfan I | 0.0 | 0.0010 | 0 | 0.0033 | 0 |
| Endosulfan II | 0.0 | 0.0010 | 0 | 0.0019 | 0 |
| Endosulfan sulfate | 0.0089 | 0.0010 | 9 | 0.035 | 0.3 |
| Endrin | 0.0 | 0.0022 | 0 | 0.21 | 0 |
| Heptachlor | 0.0 | 0.0025 | 0 | 0.016 | 0 |
| Hexachlorobenzene | 0.00095 | 0.020 | 0.05 | 0.24 | 0.004 |
| Kepone | 0.0 | 0.0033 | 0 | -- | -- |

Table U.A5-9
Risk Estimates for Sediment-Dwelling Invertebrates in Stormwater Impoundments
Based on Maximum Concentrations

| CPEC ^a | Stormwater Impoundments ^b | | | | |
|---|---|---|------------------|--|------------------|
| | EPC Sediment ^c (mg/kg) | Selected Low Screening Value ^d (mg/kg) | HQ (unitless) | Selected High Screening Value ^d (mg/kg) | HQ (unitless) |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1-Dichloroethane | 0.012 | 0.00058 | 21 | -- | -- |
| 1,2-Dichloroethene | 0.0 | -- | -- | -- | -- |
| Acetone | 0.065 | 0.0099 | 7 | 0.057 | 1 |
| Benzene | 0.0 | 0.14 | 0 | 1.0 | 0 |
| Carbon disulfide | 0.15 | 0.024 | 6 | -- | -- |
| Diisopropyl ether | 0.0 | -- | -- | -- | -- |
| Ethylbenzene | 0.0 | 0.18 | 0 | 3.0 | 0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | No Data | -- | -- | -- | -- |
| Methyl ethyl ketone | 0.0 | 0.042 | 0 | -- | -- |
| Methyl isobutyl ketone (MIBK) | 0.0 | 0.025 | 0 | -- | -- |
| Methylcyclopentane | 0.0 | -- | -- | -- | -- |
| Methylene chloride | 0.0029 | 0.16 | 0.02 | 20 | 0.0001 |
| Propanal | 0.0 | -- | -- | -- | -- |
| Tetrahydrofuran | 0.0 | -- | -- | -- | -- |
| Trichloroethylene | 0.0 | 0.11 | 0 | 13 | 0 |

Table U.A5-10
Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
Based on Maximum Concentrations

| CPEC | A-Series Pond | | | | |
|--|---|---|------------------|--|------------------|
| | EPC Sediment ^b (mg/kg) | Selected Low Screening Value ^c (mg/kg) | HQ (unitless) | Selected High Screening Value ^c (mg/kg) | HQ (unitless) |
| Inorganics^a | | | | | |
| Barium | 160 | -- | -- | -- | -- |
| Chromium | 28 | 43 | 0.6 | 111 | 0.3 |
| Manganese | 280 | 460 | 0.6 | 1100 | 0.3 |
| Mercury | 0.040 | 0.18 | 0.2 | 1.1 | 0.04 |
| Molybdenum | 21 | -- | -- | -- | -- |
| Selenium | 9.4 | 2.5 | 4 | 4.0 | 2 |
| Thallium | 0.51 | -- | -- | -- | -- |
| Tin | 47 | -- | -- | -- | -- |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.041 | -- | -- | -- | -- |
| Dichlorprop | 0.0 | 3.2 | 0 | -- | -- |
| MCPP | 0.0 | 0.0020 | 0 | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| 2-Methylnaphthalene | 0.0 | 0.18 | 0 | 0.56 | 0 |
| Benzo(a)anthracene | 0.0 | 0.11 | 0 | 1.1 | 0 |
| Benzo(a)pyrene | 0.0 | 0.15 | 0 | 1.5 | 0 |
| Benzo(b)fluoranthene | 0.0 | 10 | 0 | -- | -- |
| Benzo(g,h,i)perylene | 0.0 | 0.17 | 0 | 3.2 | 0 |
| Chrysene | 0.0 | 0.17 | 0 | 1.3 | 0 |
| Fluoranthene | 0.0 | 0.42 | 0 | 2.2 | 0 |
| Fluorene | 0.0 | 0.077 | 0 | 0.54 | 0 |
| Indeno(1,2,3-c,d)pyrene | 0.0 | 0.20 | 0 | 3.2 | 0 |
| Naphthalene | 0.0039 | 0.18 | 0.02 | 0.56 | 0.007 |
| Phenanthrene | 0.0 | 0.20 | 0 | 1.2 | 0 |
| Pyrene | 0.0 | 0.20 | 0 | 1.5 | 0 |
| Total LMW PAH | 0.0039 | 0.18 | 0.02 | 0.56 | 0.007 |
| Total HMW PAH | 0.0 | 0.15 | 0 | 1.5 | 0 |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.0 | 0.060 | 0 | 0.68 | 0 |
| Sum of PCB Congeners | 0.00019 | 0.060 | 0.003 | 0.68 | 0.0003 |
| Pesticides | | | | | |
| 4,4'-DDD | 0.0 | 0.0049 | 0 | 0.028 | 0 |
| 4,4'-DDE | 0.0 | 0.0032 | 0 | 0.031 | 0 |
| 4,4'-DDT | 0.0 | 0.0042 | 0 | 0.063 | 0 |
| Total DDT | No Data | -- | 0 | -- | 0 |
| Chlordane, alpha | 0.0 | 0.0032 | 0 | 0.018 | 0 |
| Endosulfan I | 0.0 | 0.0010 | 0 | 0.0033 | 0 |
| Endosulfan II | 0.0 | 0.0010 | 0 | 0.0019 | 0 |
| Endosulfan sulfate | 0.0 | 0.0010 | 0 | 0.035 | 0 |
| Endrin | 0.0 | 0.0022 | 0 | 0.21 | 0 |
| Heptachlor | 0.0 | 0.0025 | 0 | 0.016 | 0 |
| Hexachlorobenzene | 0.0 | 0.020 | 0 | 0.24 | 0 |
| Kepone | 0.0 | 0.0033 | 0 | -- | -- |

Table U.A5-10
 Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
 Based on Maximum Concentrations

| CPEC | A-Series Pond | | | | |
|---|---|---|------------------|--|------------------|
| | EPC Sediment ^b (mg/kg) | Selected Low Screening Value ^c (mg/kg) | HQ (unitless) | Selected High Screening Value ^c (mg/kg) | HQ (unitless) |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1-Dichloroethane | 0.0 | 0.00058 | 0 | -- | -- |
| 1,2-Dichloroethene | 0.0 | -- | -- | -- | -- |
| Acetone | No Data | 0.0099 | -- | 0.057 | -- |
| Benzene | 0.0 | 0.14 | 0 | 1.0 | 0 |
| Carbon disulfide | 0.0 | 0.024 | 0 | -- | -- |
| Diisopropyl ether | 0.0 | -- | -- | -- | -- |
| Ethylbenzene | 0.0 | 0.18 | 0 | 3.0 | 0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | No Data | -- | -- | -- | -- |
| Methyl ethyl ketone | No Data | 0.042 | -- | -- | -- |
| Methyl isobutyl ketone (MIBK) | No Data | 0.025 | -- | -- | -- |
| Methylcyclopentane | 0.0 | -- | -- | -- | -- |
| Methylene chloride | 0.0026 | 0.16 | 0.02 | 20 | 0.0001 |
| Propanal | 0.0 | -- | -- | -- | -- |
| Tetrahydrofuran | 0.0 | -- | -- | -- | -- |
| Trichloroethylene | 0.0 | 0.11 | 0 | 13 | 0 |

Table U.A5-10
Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
Based on Maximum Concentrations

| CPEC | RCF Pond | | | | |
|--|---|---|------------------|--|------------------|
| | EPC Sediment ^b (mg/kg) | Selected Low Screening Value ^c (mg/kg) | HQ (unitless) | Selected High Screening Value ^c (mg/kg) | HQ (unitless) |
| Inorganics^a | | | | | |
| Barium | 750 | -- | -- | -- | -- |
| Chromium | 42 | 43 | 1 | 111 | 0.4 |
| Manganese | 340 | 460 | 0.7 | 1100 | 0.3 |
| Mercury | 0.050 | 0.18 | 0.3 | 1.1 | 0.05 |
| Molybdenum | 6.3 | -- | -- | -- | -- |
| Selenium | 2.7 | 2.5 | 1 | 4.0 | 0.7 |
| Thallium | 0.29 | -- | -- | -- | -- |
| Tin | 40 | -- | -- | -- | -- |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.10 | -- | -- | -- | -- |
| Dichlorprop | 0.020 | 3.2 | 0.006 | -- | -- |
| MCPP | 1.0 | 0.0020 | 500 | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| 2-Methylnaphthalene | 0.0 | 0.18 | 0 | 0.56 | 0 |
| Benzo(a)anthracene | 0.0 | 0.11 | 0 | 1.1 | 0 |
| Benzo(a)pyrene | 0.0 | 0.15 | 0 | 1.5 | 0 |
| Benzo(b)fluoranthene | 0.0 | 10 | 0 | -- | -- |
| Benzo(g,h,i)perylene | 0.0 | 0.17 | 0 | 3.2 | 0 |
| Chrysene | 0.011 | 0.17 | 0.07 | 1.3 | 0.009 |
| Fluoranthene | 0.0 | 0.42 | 0 | 2.2 | 0 |
| Fluorene | 0.0027 | 0.077 | 0.03 | 0.54 | 0.005 |
| Indeno(1,2,3-c,d)pyrene | 0.0 | 0.20 | 0 | 3.2 | 0 |
| Naphthalene | 0.0 | 0.18 | 0 | 0.56 | 0 |
| Phenanthrene | 0.0 | 0.20 | 0 | 1.2 | 0 |
| Pyrene | 0.017 | 0.20 | 0.09 | 1.5 | 0.01 |
| Total LMW PAH | 0.0027 | 0.18 | 0.02 | 0.56 | 0.005 |
| Total HMW PAH | 0.028 | 0.15 | 0.2 | 1.5 | 0.02 |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.099 | 0.060 | 2 | 0.68 | 0.1 |
| Sum of PCB Congeners | 0.16 | 0.060 | 3 | 0.68 | 0.2 |
| Pesticides | | | | | |
| 4,4'-DDD | 0.012 | 0.0049 | 2 | 0.028 | 0.4 |
| 4,4'-DDE | 0.0 | 0.0032 | 0 | 0.031 | 0 |
| 4,4'-DDT | 0.0081 | 0.0042 | 2 | 0.063 | 0.1 |
| Total DDT | No Data | -- | 4 | -- | 0.6 |
| Chlordane, alpha | 0.0 | 0.0032 | 0 | 0.018 | 0 |
| Endosulfan I | 0.0 | 0.0010 | 0 | 0.0033 | 0 |
| Endosulfan II | 0.0 | 0.0010 | 0 | 0.0019 | 0 |
| Endosulfan sulfate | 0.0089 | 0.0010 | 9 | 0.035 | 0.3 |
| Endrin | 0.0 | 0.0022 | 0 | 0.21 | 0 |
| Heptachlor | 0.0 | 0.0025 | 0 | 0.016 | 0 |
| Hexachlorobenzene | 0.00095 | 0.020 | 0.05 | 0.24 | 0.004 |
| Kepone | 0.0 | 0.0033 | 0 | -- | -- |

Table U.A5-10
Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
Based on Maximum Concentrations

| CPEC | RCF Pond | | | | |
|---|---|---|------------------|--|------------------|
| | EPC Sediment ^b (mg/kg) | Selected Low Screening Value ^c (mg/kg) | HQ (unitless) | Selected High Screening Value ^c (mg/kg) | HQ (unitless) |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1-Dichloroethane | 0.012 | 0.00058 | 21 | -- | -- |
| 1,2-Dichloroethene | 0.0 | -- | -- | -- | -- |
| Acetone | 0.065 | 0.0099 | 7 | 0.057 | 1 |
| Benzene | 0.0 | 0.14 | 0 | 1.0 | 0 |
| Carbon disulfide | 0.052 | 0.024 | 2 | -- | -- |
| Diisopropyl ether | 0.0 | -- | -- | -- | -- |
| Ethylbenzene | 0.0 | 0.18 | 0 | 3.0 | 0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | No Data | -- | -- | -- | -- |
| Methyl ethyl ketone | 0.0 | 0.042 | 0 | -- | -- |
| Methyl isobutyl ketone (MIBK) | 0.0 | 0.025 | 0 | -- | -- |
| Methylcyclopentane | 0.0 | -- | -- | -- | -- |
| Methylene chloride | 0.0029 | 0.16 | 0.02 | 20 | 0.0001 |
| Propanal | 0.0 | -- | -- | -- | -- |
| Tetrahydrofuran | 0.0 | -- | -- | -- | -- |
| Trichloroethylene | 0.0 | 0.11 | 0 | 13 | 0 |

Table U.A5-10
Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
Based on Maximum Concentrations

| CPEC | Pond A-5 | | | | |
|--|---|---|------------------|--|------------------|
| | EPC Sediment ^b (mg/kg) | Selected Low Screening Value ^c (mg/kg) | HQ (unitless) | Selected High Screening Value ^c (mg/kg) | HQ (unitless) |
| Inorganics^a | | | | | |
| Barium | 4400 | -- | -- | -- | -- |
| Chromium | 76 | 43 | 2 | 111 | 0.7 |
| Manganese | 430 | 460 | 0.9 | 1100 | 0.4 |
| Mercury | 0.0 | 0.18 | 0 | 1.1 | 0 |
| Molybdenum | 15 | -- | -- | -- | -- |
| Selenium | 7.0 | 2.5 | 3 | 4.0 | 2 |
| Thallium | 0.0 | -- | -- | -- | -- |
| Tin | 0.0 | -- | -- | -- | -- |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.0 | -- | -- | -- | -- |
| Dichlorprop | 0.0 | 3.2 | 0 | -- | -- |
| MCPP | 2.0 | 0.0020 | 1000 | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| 2-Methylnaphthalene | 0.0 | 0.18 | 0 | 0.56 | 0 |
| Benzo(a)anthracene | 0.0 | 0.11 | 0 | 1.1 | 0 |
| Benzo(a)pyrene | 0.0 | 0.15 | 0 | 1.5 | 0 |
| Benzo(b)fluoranthene | 0.0 | 10 | 0 | -- | -- |
| Benzo(g,h,i)perylene | 0.0 | 0.17 | 0 | 3.2 | 0 |
| Chrysene | 0.0 | 0.17 | 0 | 1.3 | 0 |
| Fluoranthene | 0.0 | 0.42 | 0 | 2.2 | 0 |
| Fluorene | 0.0 | 0.077 | 0 | 0.54 | 0 |
| Indeno(1,2,3-c,d)pyrene | 0.0 | 0.20 | 0 | 3.2 | 0 |
| Naphthalene | 0.0090 | 0.18 | 0.05 | 0.56 | 0.02 |
| Phenanthrene | 0.0 | 0.20 | 0 | 1.2 | 0 |
| Pyrene | 0.0 | 0.20 | 0 | 1.5 | 0 |
| Total LMW PAH | 0.0090 | 0.18 | 0.05 | 0.56 | 0.02 |
| Total HMW PAH | 0.0 | 0.15 | 0 | 1.5 | 0 |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.0 | 0.060 | 0 | 0.68 | 0 |
| Sum of PCB Congeners | 0.0045 | 0.060 | 0.07 | 0.68 | 0.007 |
| Pesticides | | | | | |
| 4,4'-DDD | 0.0 | 0.0049 | 0 | 0.028 | 0 |
| 4,4'-DDE | 0.0 | 0.0032 | 0 | 0.031 | 0 |
| 4,4'-DDT | 0.0 | 0.0042 | 0 | 0.063 | 0 |
| Total DDT | No Data | -- | 0 | -- | 0 |
| Chlordane, alpha | 0.0 | 0.0032 | 0 | 0.018 | 0 |
| Endosulfan I | 0.0 | 0.0010 | 0 | 0.0033 | 0 |
| Endosulfan II | 0.0 | 0.0010 | 0 | 0.0019 | 0 |
| Endosulfan sulfate | 0.0 | 0.0010 | 0 | 0.035 | 0 |
| Endrin | 0.0 | 0.0022 | 0 | 0.21 | 0 |
| Heptachlor | 0.0 | 0.0025 | 0 | 0.016 | 0 |
| Hexachlorobenzene | 0.0 | 0.020 | 0 | 0.24 | 0 |
| Kepone | 0.0 | 0.0033 | 0 | -- | -- |

Table U.A5-10
 Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
 Based on Maximum Concentrations

| CPEC | Pond A-5 | | | | |
|---|---|---|------------------|--|------------------|
| | EPC Sediment ^b (mg/kg) | Selected Low Screening Value ^c (mg/kg) | HQ (unitless) | Selected High Screening Value ^c (mg/kg) | HQ (unitless) |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1-Dichloroethane | 0.052 | 0.00058 | 90 | -- | -- |
| 1,2-Dichloroethene | 0.0058 | -- | -- | -- | -- |
| Acetone | No Data | 0.0099 | -- | 0.057 | -- |
| Benzene | 0.027 | 0.14 | 0.2 | 1.0 | 0.03 |
| Carbon disulfide | 0.054 | 0.024 | 2 | -- | -- |
| Diisopropyl ether | 0.0040 | -- | -- | -- | -- |
| Ethylbenzene | 0.0 | 0.18 | 0 | 3.0 | 0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | No Data | -- | -- | -- | -- |
| Methyl ethyl ketone | No Data | 0.042 | -- | -- | -- |
| Methyl isobutyl ketone (MIBK) | No Data | 0.025 | -- | -- | -- |
| Methylcyclopentane | 0.28 | -- | -- | -- | -- |
| Methylene chloride | 0.014 | 0.16 | 0.09 | 20 | 0.0007 |
| Propanal | 0.0 | -- | -- | -- | -- |
| Tetrahydrofuran | 0.0042 | -- | -- | -- | -- |
| Trichloroethylene | 0.0 | 0.11 | 0 | 13 | 0 |

Table U.A5-10
Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
Based on Maximum Concentrations

| CPEC | Pond 13 | | | | |
|--|---|---|------------------|--|------------------|
| | EPC Sediment ^b (mg/kg) | Selected Low Screening Value ^c (mg/kg) | HQ (unitless) | Selected High Screening Value ^c (mg/kg) | HQ (unitless) |
| Inorganics^a | | | | | |
| Barium | 85 | -- | -- | -- | -- |
| Chromium | 27 | 43 | 0.6 | 111 | 0.2 |
| Manganese | 180 | 460 | 0.4 | 1100 | 0.2 |
| Mercury | 0.050 | 0.18 | 0.3 | 1.1 | 0.05 |
| Molybdenum | 0.0 | -- | -- | -- | -- |
| Selenium | 3.1 | 2.5 | 1 | 4.0 | 0.8 |
| Thallium | 0.0 | -- | -- | -- | -- |
| Tin | 69 | -- | -- | -- | -- |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.0 | -- | -- | -- | -- |
| Dichlorprop | 0.0 | 3.2 | 0 | -- | -- |
| MCPP | 0.0 | 0.0020 | 0 | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| 2-Methylnaphthalene | 0.0 | 0.18 | 0 | 0.56 | 0 |
| Benzo(a)anthracene | 0.0 | 0.11 | 0 | 1.1 | 0 |
| Benzo(a)pyrene | 0.0 | 0.15 | 0 | 1.5 | 0 |
| Benzo(b)fluoranthene | 0.0 | 10 | 0 | -- | -- |
| Benzo(g,h,i)perylene | 0.0 | 0.17 | 0 | 3.2 | 0 |
| Chrysene | 0.0 | 0.17 | 0 | 1.3 | 0 |
| Fluoranthene | 0.0 | 0.42 | 0 | 2.2 | 0 |
| Fluorene | 0.0 | 0.077 | 0 | 0.54 | 0 |
| Indeno(1,2,3-c,d)pyrene | 0.0 | 0.20 | 0 | 3.2 | 0 |
| Naphthalene | 0.017 | 0.18 | 0.1 | 0.56 | 0.03 |
| Phenanthrene | 0.0 | 0.20 | 0 | 1.2 | 0 |
| Pyrene | 0.0 | 0.20 | 0 | 1.5 | 0 |
| Total LMW PAH | 0.017 | 0.18 | 0.1 | 0.56 | 0.03 |
| Total HMW PAH | 0.0 | 0.15 | 0 | 1.5 | 0 |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.0 | 0.060 | 0 | 0.68 | 0 |
| Sum of PCB Congeners | 0.0035 | 0.060 | 0.06 | 0.68 | 0.005 |
| Pesticides | | | | | |
| 4,4'-DDD | 0.0 | 0.0049 | 0 | 0.028 | 0 |
| 4,4'-DDE | 0.0 | 0.0032 | 0 | 0.031 | 0 |
| 4,4'-DDT | 0.0 | 0.0042 | 0 | 0.063 | 0 |
| Total DDT | No Data | -- | 0 | -- | 0 |
| Chlordane, alpha | 0.0 | 0.0032 | 0 | 0.018 | 0 |
| Endosulfan I | 0.0 | 0.0010 | 0 | 0.0033 | 0 |
| Endosulfan II | 0.0 | 0.0010 | 0 | 0.0019 | 0 |
| Endosulfan sulfate | 0.0 | 0.0010 | 0 | 0.035 | 0 |
| Endrin | 0.0 | 0.0022 | 0 | 0.21 | 0 |
| Heptachlor | 0.0 | 0.0025 | 0 | 0.016 | 0 |
| Hexachlorobenzene | 0.0 | 0.020 | 0 | 0.24 | 0 |
| Kepone | 0.0 | 0.0033 | 0 | -- | -- |

Table U.A5-10
 Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
 Based on Maximum Concentrations

| CPEC | Pond 13 | | | | |
|---|---|---|------------------|--|------------------|
| | EPC Sediment ^b (mg/kg) | Selected Low Screening Value ^c (mg/kg) | HQ (unitless) | Selected High Screening Value ^c (mg/kg) | HQ (unitless) |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1-Dichloroethane | 0.0 | 0.00058 | 0 | -- | -- |
| 1,2-Dichloroethene | 0.0 | -- | -- | -- | -- |
| Acetone | No Data | 0.0099 | -- | 0.057 | -- |
| Benzene | 0.0 | 0.14 | 0 | 1.0 | 0 |
| Carbon disulfide | 0.15 | 0.024 | 6 | -- | -- |
| Diisopropyl ether | 0.0 | -- | -- | -- | -- |
| Ethylbenzene | 0.0 | 0.18 | 0 | 3.0 | 0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | No Data | -- | -- | -- | -- |
| Methyl ethyl ketone | No Data | 0.042 | -- | -- | -- |
| Methyl isobutyl ketone (MIBK) | No Data | 0.025 | -- | -- | -- |
| Methylcyclopentane | 0.0 | -- | -- | -- | -- |
| Methylene chloride | 0.0 | 0.16 | 0 | 20 | 0 |
| Propanal | 0.0 | -- | -- | -- | -- |
| Tetrahydrofuran | 0.0 | -- | -- | -- | -- |
| Trichloroethylene | 0.0 | 0.11 | 0 | 13 | 0 |

Table U.A5-10
Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
Based on Maximum Concentrations

| CPEC | Pond 18 | | | | |
|--|---|---|------------------|--|------------------|
| | EPC Sediment ^b (mg/kg) | Selected Low Screening Value ^c (mg/kg) | HQ (unitless) | Selected High Screening Value ^c (mg/kg) | HQ (unitless) |
| Inorganics^a | | | | | |
| Barium | 200 | -- | -- | -- | -- |
| Chromium | 55 | 43 | 1 | 111 | 0.5 |
| Manganese | 130 | 460 | 0.3 | 1100 | 0.1 |
| Mercury | 0.048 | 0.18 | 0.3 | 1.1 | 0.05 |
| Molybdenum | 11 | -- | -- | -- | -- |
| Selenium | 15 | 2.5 | 6 | 4.0 | 4 |
| Thallium | 0.67 | -- | -- | -- | -- |
| Tin | 62 | -- | -- | -- | -- |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.045 | -- | -- | -- | -- |
| Dichlorprop | 0.0 | 3.2 | 0 | -- | -- |
| MCPP | 3.1 | 0.0020 | 1550 | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| 2-Methylnaphthalene | 0.0 | 0.18 | 0 | 0.56 | 0 |
| Benzo(a)anthracene | 0.0 | 0.11 | 0 | 1.1 | 0 |
| Benzo(a)pyrene | 0.0 | 0.15 | 0 | 1.5 | 0 |
| Benzo(b)fluoranthene | 0.0 | 10 | 0 | -- | -- |
| Benzo(g,h,i)perylene | 0.0 | 0.17 | 0 | 3.2 | 0 |
| Chrysene | 0.0024 | 0.17 | 0.01 | 1.3 | 0.002 |
| Fluoranthene | 0.0 | 0.42 | 0 | 2.2 | 0 |
| Fluorene | 0.0 | 0.077 | 0 | 0.54 | 0 |
| Indeno(1,2,3-c,d)pyrene | 0.0 | 0.20 | 0 | 3.2 | 0 |
| Naphthalene | 0.0069 | 0.18 | 0.04 | 0.56 | 0.01 |
| Phenanthrene | 0.0 | 0.20 | 0 | 1.2 | 0 |
| Pyrene | 0.0 | 0.20 | 0 | 1.5 | 0 |
| Total LMW PAH | 0.0069 | 0.18 | 0.04 | 0.56 | 0.01 |
| Total HMW PAH | 0.0024 | 0.15 | 0.02 | 1.5 | 0.002 |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.0 | 0.060 | 0 | 0.68 | 0 |
| Sum of PCB Congeners | 0.0031 | 0.060 | 0.05 | 0.68 | 0.005 |
| Pesticides | | | | | |
| 4,4'-DDD | 0.0 | 0.0049 | 0 | 0.028 | 0 |
| 4,4'-DDE | 0.0 | 0.0032 | 0 | 0.031 | 0 |
| 4,4'-DDT | 0.0 | 0.0042 | 0 | 0.063 | 0 |
| Total DDT | No Data | -- | 0 | -- | 0 |
| Chlordane, alpha | 0.0 | 0.0032 | 0 | 0.018 | 0 |
| Endosulfan I | 0.0 | 0.0010 | 0 | 0.0033 | 0 |
| Endosulfan II | 0.0 | 0.0010 | 0 | 0.0019 | 0 |
| Endosulfan sulfate | 0.0 | 0.0010 | 0 | 0.035 | 0 |
| Endrin | 0.0 | 0.0022 | 0 | 0.21 | 0 |
| Heptachlor | 0.0 | 0.0025 | 0 | 0.016 | 0 |
| Hexachlorobenzene | 0.0 | 0.020 | 0 | 0.24 | 0 |
| Kepone | 0.0 | 0.0033 | 0 | -- | -- |

Table U.A5-10
 Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
 Based on Maximum Concentrations

| CPEC | Pond 18 | | | | |
|---|---|---|------------------|--|------------------|
| | EPC Sediment ^b (mg/kg) | Selected Low Screening Value ^c (mg/kg) | HQ (unitless) | Selected High Screening Value ^c (mg/kg) | HQ (unitless) |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1-Dichloroethane | 0.0 | 0.00058 | 0 | -- | -- |
| 1,2-Dichloroethene | 0.0 | -- | -- | -- | -- |
| Acetone | No Data | 0.0099 | -- | 0.057 | -- |
| Benzene | 0.0 | 0.14 | 0 | 1.0 | 0 |
| Carbon disulfide | 0.031 | 0.024 | 1 | -- | -- |
| Diisopropyl ether | 0.0 | -- | -- | -- | -- |
| Ethylbenzene | 0.0 | 0.18 | 0 | 3.0 | 0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | No Data | -- | -- | -- | -- |
| Methyl ethyl ketone | No Data | 0.042 | -- | -- | -- |
| Methyl isobutyl ketone (MIBK) | No Data | 0.025 | -- | -- | -- |
| Methylcyclopentane | 0.0 | -- | -- | -- | -- |
| Methylene chloride | 0.0060 | 0.16 | 0.04 | 20 | 0.0003 |
| Propanal | 0.0 | -- | -- | -- | -- |
| Tetrahydrofuran | 0.0 | -- | -- | -- | -- |
| Trichloroethylene | 0.0 | 0.11 | 0 | 13 | 0 |

Table U.A5-10
Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
Based on Maximum Concentrations

| CPEC | North Drainage | | | | |
|--|---|---|------------------|--|------------------|
| | EPC Sediment ^b (mg/kg) | Selected Low Screening Value ^c (mg/kg) | HQ (unitless) | Selected High Screening Value ^c (mg/kg) | HQ (unitless) |
| Inorganics^a | | | | | |
| Barium | 98 | -- | -- | -- | -- |
| Chromium | 29 | 43 | 0.7 | 111 | 0.3 |
| Manganese | 640 | 460 | 1 | 1100 | 0.6 |
| Mercury | 0.033 | 0.18 | 0.2 | 1.1 | 0.03 |
| Molybdenum | 6.3 | -- | -- | -- | -- |
| Selenium | 3.5 | 2.5 | 1 | 4.0 | 0.9 |
| Thallium | 0.26 | -- | -- | -- | -- |
| Tin | 51 | -- | -- | -- | -- |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.0 | -- | -- | -- | -- |
| Dichlorprop | 0.0 | 3.2 | 0 | -- | -- |
| MCPP | 0.0 | 0.0020 | 0 | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| 2-Methylnaphthalene | 0.0010 | 0.18 | 0.006 | 0.56 | 0.002 |
| Benzo(a)anthracene | 0.00045 | 0.11 | 0.004 | 1.1 | 0.0004 |
| Benzo(a)pyrene | 0.00029 | 0.15 | 0.002 | 1.5 | 0.0002 |
| Benzo(b)fluoranthene | 0.00068 | 10 | 0.00007 | -- | -- |
| Benzo(g,h,i)perylene | 0.00052 | 0.17 | 0.003 | 3.2 | 0.0002 |
| Chrysene | 0.00084 | 0.17 | 0.005 | 1.3 | 0.0007 |
| Fluoranthene | 0.0012 | 0.42 | 0.003 | 2.2 | 0.0005 |
| Fluorene | 0.0 | 0.077 | 0 | 0.54 | 0 |
| Indeno(1,2,3-c,d)pyrene | 0.00041 | 0.20 | 0.002 | 3.2 | 0.0001 |
| Naphthalene | 0.0 | 0.18 | 0 | 0.56 | 0 |
| Phenanthrene | 0.00075 | 0.20 | 0.004 | 1.2 | 0.0006 |
| Pyrene | 0.00092 | 0.20 | 0.005 | 1.5 | 0.0006 |
| Total LMW PAH | 0.0018 | 0.18 | 0.01 | 0.56 | 0.003 |
| Total HMW PAH | 0.0053 | 0.15 | 0.04 | 1.5 | 0.004 |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.0 | 0.060 | 0 | 0.68 | 0 |
| Sum of PCB Congeners | No Data | 0.060 | -- | 0.68 | -- |
| Pesticides | | | | | |
| 4,4'-DDD | 0.00090 | 0.0049 | 0.2 | 0.028 | 0.03 |
| 4,4'-DDE | 0.00030 | 0.0032 | 0.09 | 0.031 | 0.01 |
| 4,4'-DDT | 0.00054 | 0.0042 | 0.1 | 0.063 | 0.009 |
| Total DDT | No Data | -- | 0.4 | -- | 0.05 |
| Chlordane, alpha | 0.0 | 0.0032 | 0 | 0.018 | 0 |
| Endosulfan I | 0.00027 | 0.0010 | 0.3 | 0.0033 | 0.08 |
| Endosulfan II | 0.0011 | 0.0010 | 1 | 0.0019 | 0.6 |
| Endosulfan sulfate | 0.0 | 0.0010 | 0 | 0.035 | 0 |
| Endrin | 0.0 | 0.0022 | 0 | 0.21 | 0 |
| Heptachlor | 0.00037 | 0.0025 | 0.1 | 0.016 | 0.02 |
| Hexachlorobenzene | 0.00058 | 0.020 | 0.03 | 0.24 | 0.002 |
| Kepone | No Data | 0.0033 | -- | -- | -- |

Table U.A5-10
Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
Based on Maximum Concentrations

| CPEC | North Drainage | | | | |
|---|---|---|------------------|--|------------------|
| | EPC Sediment ^b (mg/kg) | Selected Low Screening Value ^c (mg/kg) | HQ (unitless) | Selected High Screening Value ^c (mg/kg) | HQ (unitless) |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1-Dichloroethane | 0.0 | 0.00058 | 0 | -- | -- |
| 1,2-Dichloroethene | 0.0 | -- | -- | -- | -- |
| Acetone | 0.0 | 0.0099 | 0 | 0.057 | 0 |
| Benzene | 0.0 | 0.14 | 0 | 1.0 | 0 |
| Carbon disulfide | 0.0 | 0.024 | 0 | -- | -- |
| Diisopropyl ether | 0.0 | -- | -- | -- | -- |
| Ethylbenzene | 0.0069 | 0.18 | 0.04 | 3.0 | 0.002 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0 | -- | -- | -- | -- |
| Methyl ethyl ketone | 0.0 | 0.042 | 0 | -- | -- |
| Methyl isobutyl ketone (MIBK) | 0.0 | 0.025 | 0 | -- | -- |
| Methylcyclopentane | 0.0 | -- | -- | -- | -- |
| Methylene chloride | 0.0 | 0.16 | 0 | 20 | 0 |
| Propanal | 0.0 | -- | -- | -- | -- |
| Tetrahydrofuran | 0.0 | -- | -- | -- | -- |
| Trichloroethylene | 0.0 | 0.11 | 0 | 13 | 0 |

Table U.A5-10
Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
Based on Maximum Concentrations

| CPEC | A Drainage | | | | |
|--|---|---|------------------|--|------------------|
| | EPC Sediment ^b (mg/kg) | Selected Low Screening Value ^c (mg/kg) | HQ (unitless) | Selected High Screening Value ^c (mg/kg) | HQ (unitless) |
| Inorganics^a | | | | | |
| Barium | 120 | -- | -- | -- | -- |
| Chromium | 26 | 43 | 0.6 | 111 | 0.2 |
| Manganese | 840 | 460 | 2 | 1100 | 0.8 |
| Mercury | 0.0 | 0.18 | 0 | 1.1 | 0 |
| Molybdenum | 3.0 | -- | -- | -- | -- |
| Selenium | 1.1 | 2.5 | 0.4 | 4.0 | 0.3 |
| Thallium | 0.26 | -- | -- | -- | -- |
| Tin | 52 | -- | -- | -- | -- |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.0 | -- | -- | -- | -- |
| Dichlorprop | 0.0 | 3.2 | 0 | -- | -- |
| MCPP | 0.0 | 0.0020 | 0 | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| 2-Methylnaphthalene | 0.0012 | 0.18 | 0.007 | 0.56 | 0.002 |
| Benzo(a)anthracene | 0.0038 | 0.11 | 0.04 | 1.1 | 0.004 |
| Benzo(a)pyrene | 0.0035 | 0.15 | 0.02 | 1.5 | 0.002 |
| Benzo(b)fluoranthene | 0.0026 | 10 | 0.0003 | -- | -- |
| Benzo(g,h,i)perylene | 0.0029 | 0.17 | 0.02 | 3.2 | 0.0009 |
| Chrysene | 0.0050 | 0.17 | 0.03 | 1.3 | 0.004 |
| Fluoranthene | 0.0089 | 0.42 | 0.02 | 2.2 | 0.004 |
| Fluorene | 0.00059 | 0.077 | 0.008 | 0.54 | 0.001 |
| Indeno(1,2,3-c,d)pyrene | 0.0030 | 0.20 | 0.02 | 3.2 | 0.0009 |
| Naphthalene | 0.0 | 0.18 | 0 | 0.56 | 0 |
| Phenanthrene | 0.0099 | 0.20 | 0.05 | 1.2 | 0.008 |
| Pyrene | 0.011 | 0.20 | 0.06 | 1.5 | 0.007 |
| Total LMW PAH | 0.012 | 0.18 | 0.07 | 0.56 | 0.02 |
| Total HMW PAH | 0.041 | 0.15 | 0.3 | 1.5 | 0.03 |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.0057 | 0.060 | 0.1 | 0.68 | 0.008 |
| Sum of PCB Congeners | No Data | 0.060 | -- | 0.68 | -- |
| Pesticides | | | | | |
| 4,4'-DDD | 0.00092 | 0.0049 | 0.2 | 0.028 | 0.03 |
| 4,4'-DDE | 0.0018 | 0.0032 | 0.6 | 0.031 | 0.06 |
| 4,4'-DDT | 0.00027 | 0.0042 | 0.06 | 0.063 | 0.004 |
| Total DDT | No Data | -- | 0.8 | -- | 0.09 |
| Chlordane, alpha | 0.00036 | 0.0032 | 0.1 | 0.018 | 0.02 |
| Endosulfan I | 0.0012 | 0.0010 | 1 | 0.0033 | 0.4 |
| Endosulfan II | 0.0 | 0.0010 | 0 | 0.0019 | 0 |
| Endosulfan sulfate | 0.0012 | 0.0010 | 1 | 0.035 | 0.03 |
| Endrin | 0.0 | 0.0022 | 0 | 0.21 | 0 |
| Heptachlor | 0.0 | 0.0025 | 0 | 0.016 | 0 |
| Hexachlorobenzene | 0.00032 | 0.020 | 0.02 | 0.24 | 0.001 |
| Kepone | No Data | 0.0033 | -- | -- | -- |

Table U.A5-10
 Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
 Based on Maximum Concentrations

| CPEC | A Drainage | | | | |
|---|---|---|------------------|--|------------------|
| | EPC Sediment ^b (mg/kg) | Selected Low Screening Value ^c (mg/kg) | HQ (unitless) | Selected High Screening Value ^c (mg/kg) | HQ (unitless) |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1-Dichloroethane | 0.0 | 0.00058 | 0 | -- | -- |
| 1,2-Dichloroethene | 0.0 | -- | -- | -- | -- |
| Acetone | 0.0 | 0.0099 | 0 | 0.057 | 0 |
| Benzene | 0.0033 | 0.14 | 0.02 | 1.0 | 0.003 |
| Carbon disulfide | 0.010 | 0.024 | 0.4 | -- | -- |
| Diisopropyl ether | 0.0 | -- | -- | -- | -- |
| Ethylbenzene | 0.0 | 0.18 | 0 | 3.0 | 0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0 | -- | -- | -- | -- |
| Methyl ethyl ketone | 0.010 | 0.042 | 0.2 | -- | -- |
| Methyl isobutyl ketone (MIBK) | 0.0 | 0.025 | 0 | -- | -- |
| Methylcyclopentane | 0.0 | -- | -- | -- | -- |
| Methylene chloride | 0.0 | 0.16 | 0 | 20 | 0 |
| Propanal | 0.0 | -- | -- | -- | -- |
| Tetrahydrofuran | 0.0 | -- | -- | -- | -- |
| Trichloroethylene | 0.0 | 0.11 | 0 | 13 | 0 |

Table U.A5-10
Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
Based on Maximum Concentrations

| CPEC | Upper C Drainage | | | | |
|--|---|---|------------------|--|------------------|
| | EPC Sediment ^b (mg/kg) | Selected Low Screening Value ^c (mg/kg) | HQ (unitless) | Selected High Screening Value ^c (mg/kg) | HQ (unitless) |
| Inorganics^a | | | | | |
| Barium | 96 | -- | -- | -- | -- |
| Chromium | 41 | 43 | 0.9 | 111 | 0.4 |
| Manganese | 110 | 460 | 0.2 | 1100 | 0.1 |
| Mercury | 0.0 | 0.18 | 0 | 1.1 | 0 |
| Molybdenum | 6.4 | -- | -- | -- | -- |
| Selenium | 0.0 | 2.5 | 0 | 4.0 | 0 |
| Thallium | 0.0 | -- | -- | -- | -- |
| Tin | 48 | -- | -- | -- | -- |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | No Data | -- | -- | -- | -- |
| Dichlorprop | No Data | 3.2 | -- | -- | -- |
| MCPP | No Data | 0.0020 | -- | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| 2-Methylnaphthalene | 0.0010 | 0.18 | 0.006 | 0.56 | 0.002 |
| Benzo(a)anthracene | 0.00095 | 0.11 | 0.009 | 1.1 | 0.0009 |
| Benzo(a)pyrene | 0.00087 | 0.15 | 0.006 | 1.5 | 0.0006 |
| Benzo(b)fluoranthene | 0.0 | 10 | 0 | -- | -- |
| Benzo(g,h,i)perylene | 0.00083 | 0.17 | 0.005 | 3.2 | 0.0003 |
| Chrysene | 0.0017 | 0.17 | 0.01 | 1.3 | 0.001 |
| Fluoranthene | 0.0011 | 0.42 | 0.003 | 2.2 | 0.0005 |
| Fluorene | 0.0 | 0.077 | 0 | 0.54 | 0 |
| Indeno(1,2,3-c,d)pyrene | 0.00051 | 0.20 | 0.003 | 3.2 | 0.0002 |
| Naphthalene | 0.0 | 0.18 | 0 | 0.56 | 0 |
| Phenanthrene | 0.00088 | 0.20 | 0.004 | 1.2 | 0.0008 |
| Pyrene | 0.0016 | 0.20 | 0.008 | 1.5 | 0.001 |
| Total LMW PAH | 0.0019 | 0.18 | 0.01 | 0.56 | 0.003 |
| Total HMW PAH | 0.0076 | 0.15 | 0.05 | 1.5 | 0.005 |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.0 | 0.060 | 0 | 0.68 | 0 |
| Sum of PCB Congeners | No Data | 0.060 | -- | 0.68 | -- |
| Pesticides | | | | | |
| 4,4'-DDD | 0.0025 | 0.0049 | 0.5 | 0.028 | 0.09 |
| 4,4'-DDE | 0.0022 | 0.0032 | 0.7 | 0.031 | 0.07 |
| 4,4'-DDT | 0.0011 | 0.0042 | 0.3 | 0.063 | 0.02 |
| Total DDT | No Data | -- | 1 | -- | 0.2 |
| Chlordane, alpha | 0.00042 | 0.0032 | 0.1 | 0.018 | 0.02 |
| Endosulfan I | 0.0 | 0.0010 | 0 | 0.0033 | 0 |
| Endosulfan II | 0.0 | 0.0010 | 0 | 0.0019 | 0 |
| Endosulfan sulfate | 0.0 | 0.0010 | 0 | 0.035 | 0 |
| Endrin | 0.0 | 0.0022 | 0 | 0.21 | 0 |
| Heptachlor | 0.00034 | 0.0025 | 0.1 | 0.016 | 0.02 |
| Hexachlorobenzene | 0.00052 | 0.020 | 0.03 | 0.24 | 0.002 |
| Kepone | No Data | 0.0033 | -- | -- | -- |

Table U.A5-10
Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
Based on Maximum Concentrations

| CPEC | Upper C Drainage | | | | |
|---|---|---|------------------|--|------------------|
| | EPC Sediment ^b (mg/kg) | Selected Low Screening Value ^c (mg/kg) | HQ (unitless) | Selected High Screening Value ^c (mg/kg) | HQ (unitless) |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1-Dichloroethane | No Data | 0.00058 | -- | -- | -- |
| 1,2-Dichloroethene | No Data | -- | -- | -- | -- |
| Acetone | No Data | 0.0099 | -- | 0.057 | -- |
| Benzene | No Data | 0.14 | -- | 1.0 | -- |
| Carbon disulfide | No Data | 0.024 | -- | -- | -- |
| Diisopropyl ether | No Data | -- | -- | -- | -- |
| Ethylbenzene | No Data | 0.18 | -- | 3.0 | -- |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | No Data | -- | -- | -- | -- |
| Methyl ethyl ketone | No Data | 0.042 | -- | -- | -- |
| Methyl isobutyl ketone (MIBK) | No Data | 0.025 | -- | -- | -- |
| Methylcyclopentane | No Data | -- | -- | -- | -- |
| Methylene chloride | No Data | 0.16 | -- | 20 | -- |
| Propanal | No Data | -- | -- | -- | -- |
| Tetrahydrofuran | No Data | -- | -- | -- | -- |
| Trichloroethylene | No Data | 0.11 | -- | 13 | -- |

Table U.A5-10
Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
Based on Maximum Concentrations

| CPEC | Lower C Drainage | | | | |
|--|---|---|------------------|--|------------------|
| | EPC Sediment ^b (mg/kg) | Selected Low Screening Value ^c (mg/kg) | HQ (unitless) | Selected High Screening Value ^c (mg/kg) | HQ (unitless) |
| Inorganics^a | | | | | |
| Barium | 110 | -- | -- | -- | -- |
| Chromium | 30 | 43 | 0.7 | 111 | 0.3 |
| Manganese | 410 | 460 | 0.9 | 1100 | 0.4 |
| Mercury | 0.0 | 0.18 | 0 | 1.1 | 0 |
| Molybdenum | 4.4 | -- | -- | -- | -- |
| Selenium | 2.8 | 2.5 | 1 | 4.0 | 0.7 |
| Thallium | 0.0 | -- | -- | -- | -- |
| Tin | 53 | -- | -- | -- | -- |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.0 | -- | -- | -- | -- |
| Dichlorprop | 0.0 | 3.2 | 0 | -- | -- |
| MCPP | 0.0 | 0.0020 | 0 | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| 2-Methylnaphthalene | 0.0013 | 0.18 | 0.007 | 0.56 | 0.002 |
| Benzo(a)anthracene | 0.0016 | 0.11 | 0.01 | 1.1 | 0.002 |
| Benzo(a)pyrene | 0.0013 | 0.15 | 0.009 | 1.5 | 0.0009 |
| Benzo(b)fluoranthene | 0.0 | 10 | 0 | -- | -- |
| Benzo(g,h,i)perylene | 0.0012 | 0.17 | 0.007 | 3.2 | 0.0004 |
| Chrysene | 0.0020 | 0.17 | 0.01 | 1.3 | 0.002 |
| Fluoranthene | 0.0021 | 0.42 | 0.005 | 2.2 | 0.0009 |
| Fluorene | 0.00054 | 0.077 | 0.007 | 0.54 | 0.001 |
| Indeno(1,2,3-c,d)pyrene | 0.00074 | 0.20 | 0.004 | 3.2 | 0.0002 |
| Naphthalene | 0.0 | 0.18 | 0 | 0.56 | 0 |
| Phenanthrene | 0.0028 | 0.20 | 0.01 | 1.2 | 0.002 |
| Pyrene | 0.0043 | 0.20 | 0.02 | 1.5 | 0.003 |
| Total LMW PAH | 0.0046 | 0.18 | 0.03 | 0.56 | 0.008 |
| Total HMW PAH | 0.013 | 0.15 | 0.09 | 1.5 | 0.009 |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.0 | 0.060 | 0 | 0.68 | 0 |
| Sum of PCB Congeners | No Data | 0.060 | -- | 0.68 | -- |
| Pesticides | | | | | |
| 4,4'-DDD | 0.00083 | 0.0049 | 0.2 | 0.028 | 0.03 |
| 4,4'-DDE | 0.00066 | 0.0032 | 0.2 | 0.031 | 0.02 |
| 4,4'-DDT | 0.0 | 0.0042 | 0 | 0.063 | 0 |
| Total DDT | No Data | -- | 0.4 | -- | 0.05 |
| Chlordane, alpha | 0.0 | 0.0032 | 0 | 0.018 | 0 |
| Endosulfan I | 0.0012 | 0.0010 | 1 | 0.0033 | 0.4 |
| Endosulfan II | 0.0 | 0.0010 | 0 | 0.0019 | 0 |
| Endosulfan sulfate | 0.0 | 0.0010 | 0 | 0.035 | 0 |
| Endrin | 0.0 | 0.0022 | 0 | 0.21 | 0 |
| Heptachlor | 0.00063 | 0.0025 | 0.3 | 0.016 | 0.04 |
| Hexachlorobenzene | 0.0013 | 0.020 | 0.07 | 0.24 | 0.005 |
| Kepone | No Data | 0.0033 | -- | -- | -- |

Table U.A5-10
Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
Based on Maximum Concentrations

| CPEC | Lower C Drainage | | | | |
|---|---|---|------------------|--|------------------|
| | EPC Sediment ^b (mg/kg) | Selected Low Screening Value ^c (mg/kg) | HQ (unitless) | Selected High Screening Value ^c (mg/kg) | HQ (unitless) |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1-Dichloroethane | 0.0 | 0.00058 | 0 | -- | -- |
| 1,2-Dichloroethene | 0.0 | -- | -- | -- | -- |
| Acetone | 0.0 | 0.0099 | 0 | 0.057 | 0 |
| Benzene | 0.0 | 0.14 | 0 | 1.0 | 0 |
| Carbon disulfide | 0.0 | 0.024 | 0 | -- | -- |
| Diisopropyl ether | 0.0 | -- | -- | -- | -- |
| Ethylbenzene | 0.0 | 0.18 | 0 | 3.0 | 0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0 | -- | -- | -- | -- |
| Methyl ethyl ketone | 0.024 | 0.042 | 0.6 | -- | -- |
| Methyl isobutyl ketone (MIBK) | 0.0059 | 0.025 | 0.2 | -- | -- |
| Methylcyclopentane | 0.0 | -- | -- | -- | -- |
| Methylene chloride | 0.0 | 0.16 | 0 | 20 | 0 |
| Propanal | 0.94 | -- | -- | -- | -- |
| Tetrahydrofuran | 0.0 | -- | -- | -- | -- |
| Trichloroethylene | 0.0 | 0.11 | 0 | 13 | 0 |

Table U.A5-10
Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
Based on Maximum Concentrations

| CPEC | B Drainage | | | | |
|--|---|---|------------------|--|------------------|
| | EPC Sediment ^b (mg/kg) | Selected Low Screening Value ^c (mg/kg) | HQ (unitless) | Selected High Screening Value ^c (mg/kg) | HQ (unitless) |
| Inorganics^a | | | | | |
| Barium | 93 | -- | -- | -- | -- |
| Chromium | 33 | 43 | 0.8 | 111 | 0.3 |
| Manganese | 300 | 460 | 0.7 | 1100 | 0.3 |
| Mercury | 0.0 | 0.18 | 0 | 1.1 | 0 |
| Molybdenum | 2.7 | -- | -- | -- | -- |
| Selenium | 0.0 | 2.5 | 0 | 4.0 | 0 |
| Thallium | 0.36 | -- | -- | -- | -- |
| Tin | 40 | -- | -- | -- | -- |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.0 | -- | -- | -- | -- |
| Dichlorprop | No Data | 3.2 | -- | -- | -- |
| MCPP | 0.0 | 0.0020 | 0 | -- | -- |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| 2-Methylnaphthalene | No Data | 0.18 | -- | 0.56 | -- |
| Benzo(a)anthracene | 0.0 | 0.11 | 0 | 1.1 | 0 |
| Benzo(a)pyrene | 0.0 | 0.15 | 0 | 1.5 | 0 |
| Benzo(b)fluoranthene | 0.0 | 10 | 0 | -- | -- |
| Benzo(g,h,i)perylene | 0.0 | 0.17 | 0 | 3.2 | 0 |
| Chrysene | 0.0 | 0.17 | 0 | 1.3 | 0 |
| Fluoranthene | 0.0 | 0.42 | 0 | 2.2 | 0 |
| Fluorene | 0.0 | 0.077 | 0 | 0.54 | 0 |
| Indeno(1,2,3-c,d)pyrene | 0.0 | 0.20 | 0 | 3.2 | 0 |
| Naphthalene | 0.0 | 0.18 | 0 | 0.56 | 0 |
| Phenanthrene | No Data | 0.20 | -- | 1.2 | -- |
| Pyrene | 0.0 | 0.20 | 0 | 1.5 | 0 |
| Total LMW PAH | 0.0 | 0.18 | 0 | 0.56 | 0 |
| Total HMW PAH | 0.0 | 0.15 | 0 | 1.5 | 0 |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.0 | 0.060 | 0 | 0.68 | 0 |
| Sum of PCB Congeners | No Data | 0.060 | -- | 0.68 | -- |
| Pesticides | | | | | |
| 4,4'-DDD | No Data | 0.0049 | -- | 0.028 | -- |
| 4,4'-DDE | 0.0 | 0.0032 | 0 | 0.031 | 0 |
| 4,4'-DDT | 0.0 | 0.0042 | 0 | 0.063 | 0 |
| Total DDT | No Data | -- | 0 | -- | 0 |
| Chlordane, alpha | No Data | 0.0032 | -- | 0.018 | -- |
| Endosulfan I | No Data | 0.0010 | -- | 0.0033 | -- |
| Endosulfan II | No Data | 0.0010 | -- | 0.0019 | -- |
| Endosulfan sulfate | No Data | 0.0010 | -- | 0.035 | -- |
| Endrin | No Data | 0.0022 | -- | 0.21 | -- |
| Heptachlor | No Data | 0.0025 | -- | 0.016 | -- |
| Hexachlorobenzene | 0.0 | 0.020 | 0 | 0.24 | 0 |
| Kepone | No Data | 0.0033 | -- | -- | -- |

Table U.A5-10
Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
Based on Maximum Concentrations

| CPEC | B Drainage | | | | |
|---|---|---|------------------|--|------------------|
| | EPC Sediment ^b (mg/kg) | Selected Low Screening Value ^c (mg/kg) | HQ (unitless) | Selected High Screening Value ^c (mg/kg) | HQ (unitless) |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1-Dichloroethane | 0.0 | 0.00058 | 0 | -- | -- |
| 1,2-Dichloroethene | 0.0 | -- | -- | -- | -- |
| Acetone | 0.0 | 0.0099 | 0 | 0.057 | 0 |
| Benzene | 0.0 | 0.14 | 0 | 1.0 | 0 |
| Carbon disulfide | 0.0 | 0.024 | 0 | -- | -- |
| Diisopropyl ether | No Data | -- | -- | -- | -- |
| Ethylbenzene | No Data | 0.18 | -- | 3.0 | -- |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0 | -- | -- | -- | -- |
| Methyl ethyl ketone | 0.0 | 0.042 | 0 | -- | -- |
| Methyl isobutyl ketone (MIBK) | No Data | 0.025 | -- | -- | -- |
| Methylcyclopentane | No Data | -- | -- | -- | -- |
| Methylene chloride | 0.0 | 0.16 | 0 | 20 | 0 |
| Propanal | 0.0 | -- | -- | -- | -- |
| Tetrahydrofuran | 0.0 | -- | -- | -- | -- |
| Trichloroethylene | 0.0 | 0.11 | 0 | 13 | 0 |

Table U.A5-10
Risk Estimates for Sediment-Dwelling Invertebrates in Aquatic Exposure Units
Based on Maximum Concentrations

CPEC = Chemical of Potential Ecological Concern.

HQ = Hazard Quotient (unitless).

Total LMW PAH = Sum of the LMW PAHs.

Total HMW PAH = Sum of the HMW PAHs.

Total DDT = Sum of DDD, DDE, DDT.

NA = Not Applicable.

Max = Maximum detected concentration.

No Data = CPEC was not analyzed in the sample

"--" = in screening value column, compound not a CPEC in the matrix, or screening value not available. In HQ column, HQ not calculated.

An EPC value of 0.0 indicates CPEC was not detected, or compound was not a CPEC in the matrix.

mg/kg, dw = milligrams per kilogram, dry weight.

HQ > 1

^a The sediment CPECs cadmium, copper, lead, nickel, and zinc were evaluated separately using Simultaneously Extracted Metals- Acid Volatile Sulfide (SEM-AVS) methodologies. AVS concentrations exceeded SEM concentrations for these CPECs indicating that the metals are bound to AVS and not available to aquatic receptors. Consequently, these CPECs are not included in this risk estimation.

^bSediment is surface values (0-0.5 feet below ground surface [bgs]).

^c From Table U5-2 of the ERA (Appendix U) and Attachment 2.

Table U.A5-11
Risk Estimates for Aquatic Life, Amphibians, and Aquatic Plants in Sitewide Surface Water
Based on Maximum Concentrations

| CPEC | Sitewide (Pondwide) Surface Water | | | | | | | | |
|--|-----------------------------------|--|---------------|--|---------------|--|---------------|---|---------------|
| | Surface Water EPC (µg/L) | Selected Surface Water Screening ^a (µg/L) | HQ (unitless) | Selected Amphibian Screening Value ^a (µg/L) | HQ (unitless) | Selected Plant Screening Value ^a (µg/L) | HQ (unitless) | AWQC for Aquatic Life (acute/CMC) ^b (µg/L) | HQ (unitless) |
| Inorganics | | | | | | | | | |
| Antimony | 1.1 | 30 | 0.04 | 3.0 | 0.4 | 610 | 0.002 | -- | -- |
| Arsenic | 710 | 150 | 5 | 0.40 | 1775 | 48 | 15 | 340 | 0.4 |
| Barium | 200 | 4.0 | 50 | 2.3 | 87 | 1500000 | 0.00001 | -- | -- |
| Beryllium | 0.44 | 0.66 | 0.7 | 0.032 | 14 | 100000 | 0.000004 | -- | -- |
| Cadmium | 0.57 | 3.0 | 0.2 | 0.016 | 36 | 2.0 | 0.3 | 3.0 | 1 |
| Chromium | 97 | 250 | 0.4 | 0.30 | 323 | 397 | 0.2 | 794 | 0.3 |
| Cobalt | 0.0 | 23 | 0 | 0.50 | 0 | 60 | 0 | -- | -- |
| Copper | 21 | 13 | 2 | 0.010 | 2100 | 1.0 | 21 | 20 | 0.7 |
| Lead | 9.6 | 3.9 | 2 | 0.40 | 24 | 500 | 0.02 | 100 | 0.04 |
| Manganese | 2000 | 120 | 17 | 0.50 | 4000 | 4000 | 0.5 | -- | -- |
| Mercury | 0.21 | 0.77 | 0.3 | 0.010 | 21 | 5.0 | 0.04 | 1.4 | 0.6 |
| Molybdenum | 63 | 370 | 0.2 | 0.40 | 158 | 500 | 0.1 | -- | -- |
| Nickel | 2000 | 73 | 27 | 0.020 | 100000 | 5.0 | 400 | 660 | 0.1 |
| Selenium | 2900 | 5.0 | 580 | 0.90 | 3222 | 100 | 29 | 290 | 0.02 |
| Silver | 0.46 | 0.36 | 1 | 0.041 | 11 | 30 | 0.02 | 6.5 | 0.06 |
| Thallium | 1.0 | 12 | 0.08 | 0.10 | 10 | 100 | 0.01 | -- | -- |
| Tin | No Data | 73 | -- | 0.020 | -- | 100000 | -- | -- | -- |
| Vanadium | 63 | 20 | 3 | 0.030 | 2100 | 200 | 0.3 | -- | -- |
| Zinc | 98 | 170 | 0.6 | 0.047 | 2085 | 30 | 3 | 165 | 1 |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | | | | | |
| Benz(a)anthracene | 0.010 | 0.027 | 0.4 | 870 | 0.00001 | 850 | 0.00001 | -- | -- |
| Benz(a)pyrene | 0.013 | 0.014 | 0.9 | 870 | 0.00001 | 850 | 0.00002 | -- | -- |
| Benz(b)fluoranthene | 0.0 | 0.029 | 0 | 870 | 0 | 850 | 0 | -- | -- |
| Benz(g,h,i)perylene | 0.0 | 0.10 | 0 | 870 | 0 | 850 | 0 | -- | -- |
| Dibenzo(a,h)anthracene | 0.013 | 7.5 | 0.002 | 870 | 0.00001 | 850 | 0.00002 | -- | -- |
| Naphthalene | 0.016 | 12 | 0.001 | 21 | 0.0008 | 33000 | 0.0000005 | -- | -- |
| Total LMW PAH | 0.016 | 12 | 0.001 | 21 | 0.0008 | 33000 | 0.0000005 | -- | -- |
| Total HMW PAH | 0.036 | 0.014 | 3 | 870 | 0.00004 | 850 | 0.00004 | -- | -- |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | | | | | |
| Bis(2-chloroethyl)ether | 0.020 | 61 | 0.0003 | -- | -- | -- | -- | -- | -- |
| Bis(2-ethylhexyl)phthalate | 51 | 3.0 | 17 | 39 | 1 | 3200 | 0.02 | -- | -- |
| N-Nitrosodiemethylamine | 0.19 | -- | -- | -- | -- | -- | -- | -- | -- |
| N-Nitrosodipropylamine | 0.49 | 210 | 0.002 | -- | -- | -- | -- | -- | -- |
| N-Nitrosopyrrolidine | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- |
| Volatile Organic Compounds (VOCs) | | | | | | | | | |
| 1,1-Dichloroethane | 1.3 | 47 | 0.03 | 0.20 | 7 | -- | -- | -- | -- |
| 1,2-Dibromoethane (EDB) | 0.012 | 1400 | 0.000009 | -- | -- | -- | -- | -- | -- |
| Acetone | 18 | 1500 | 0.01 | 20 | 0.9 | 122 | 0.1 | -- | -- |
| Acetonitrile | No Data | 76 | -- | 116 | -- | -- | -- | -- | -- |
| Carbon disulfide | 0.43 | 0.92 | 0.5 | 1.2 | 0.4 | -- | -- | -- | -- |
| Ethylene glycol | No Data | 2000 | -- | 3260 | -- | 546000 | -- | -- | -- |
| Methyl isobutyl ketone (MIBK) | No Data | 170 | -- | -- | -- | 410 | -- | -- | -- |
| Methylene chloride | 7.0 | 2200 | 0.003 | 122 | 0.06 | -- | -- | -- | -- |
| Nonanal | 0.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| Propanal | 14 | -- | -- | -- | -- | 7960 | 0.002 | -- | -- |
| Trichloroethylene | 1.3 | 360 | 0.004 | 450 | 0.003 | 317 | 0.004 | -- | -- |

CPEC = Chemical of Potential Ecological Concern.

HQ = Hazard Quotient (unitless).

Total LMW PAH = Sum of the LMW PAHs.

Total HMW PAH = Sum of the HMW PAHs.

Total DDT = Sum of DDD, DDE, DDT.

NA = Not Applicable.

Max = Maximum detected concentration.

No Data = CPEC was not analyzed in the sample.

-- = in screening value column, compound not a CPEC in the matrix, or screening value not available. In HQ column, HQ not calculated.

An EPC value of 0.0 indicates CPEC was not detected, or compound was not a CPEC in the matrix.

ug/L = micrograms per liter

HQ > 1

^a From Table U5-3 of the ERA (Appendix U) and Attachment 2

Table U.A5-12
Risk Estimates for Aquatic Life, Amphibians, and Aquatic Plants in Stormwater Impoundment Surface Water
Based on Maximum Concentrations

| CPEC | Stormwater Impoundments | | | | | | |
|--|--|--|------------------|--|------------------|--|------------------|
| | Surface Water EPC ($\mu\text{g/L}$) | Selected Surface Water Screening ^a ($\mu\text{g/L}$) | HQ (unitless) | Selected Amphibian Screening Value ^a ($\mu\text{g/L}$) | HQ (unitless) | Selected Plant Screening Value ^a ($\mu\text{g/L}$) | HQ (unitless) |
| Inorganics | | | | | | | |
| Antimony | 1.0 | 30 | 0.03 | 3.0 | 0.3 | 610 | 0.002 |
| Arsenic | 710 | 150 | 5 | 0.40 | 1775 | 48 | 15 |
| Barium | 190 | 4.0 | 48 | 2.3 | 83 | 15000000 | 0.00001 |
| Beryllium | 0.44 | 0.66 | 0.7 | 0.032 | 14 | 100000 | 0.00004 |
| Cadmium | 0.20 | 3.0 | 0.07 | 0.016 | 13 | 2.0 | 0.1 |
| Chromium | 92 | 250 | 0.4 | 0.30 | 307 | 397 | 0.2 |
| Cobalt | 0.0 | 23 | 0 | 0.50 | 0 | 60 | 0 |
| Copper | 6.1 | 13 | 0.5 | 0.010 | 610 | 1.0 | 6 |
| Amenable Cyanide | 0.0 | -- | -- | -- | -- | -- | -- |
| Total Cyanide | 0.0 | -- | -- | -- | -- | -- | -- |
| Lead | 9.6 | 3.9 | 2 | 0.40 | 24 | 500 | 0.02 |
| Manganese | 530 | 120 | 4 | 0.50 | 1060 | 4000 | 0.1 |
| Mercury | 0.21 | 0.77 | 0.3 | 0.010 | 21 | 5.0 | 0.04 |
| Molybdenum | 47 | 370 | 0.1 | 0.40 | 118 | 500 | 0.09 |
| Nickel | 2000 | 73 | 27 | 0.020 | 100000 | 5.0 | 400 |
| Selenium | 2900 | 5.0 | 580 | 0.90 | 3222 | 100 | 29 |
| Sulfide | 0.0 | -- | -- | -- | -- | -- | -- |
| Silver | 0.0 | 0.36 | 0 | 0.041 | 0 | 30 | 0 |
| Thallium | 0.0 | 12 | 0 | 0.10 | 0 | 100 | 0 |
| Tin | No Data | 73 | -- | 0.020 | -- | 100000 | -- |
| Vanadium | 63 | 20 | 3 | 0.030 | 2100 | 200 | 0.3 |
| Zinc | 98 | 170 | 0.6 | 0.047 | 2085 | 30 | 3 |
| Dioxins/Furans | | | | | | | |
| 1,2,3,4,6,7,8-HxCDD | 0.0 | -- | -- | -- | -- | -- | -- |
| 1,2,3,4,6,7,8-HxCDF | 0.0 | -- | -- | -- | -- | -- | -- |
| 1,2,3,4,7,8,9-HxCDF | 0.0 | -- | -- | -- | -- | -- | -- |
| 1,2,3,4,7,8-HxCDD | 0.0 | -- | -- | -- | -- | -- | -- |
| 1,2,3,4,7,8-HxCDF | 0.0 | -- | -- | -- | -- | -- | -- |
| 1,2,3,6,7,8-HxCDD | 0.0 | -- | -- | -- | -- | -- | -- |
| 1,2,3,6,7,8-HxCDF | 0.0 | -- | -- | -- | -- | -- | -- |
| 1,2,3,7,8,9-HxCDD | 0.0 | -- | -- | -- | -- | -- | -- |
| 1,2,3,7,8,9-HxCDF | 0.0 | -- | -- | -- | -- | -- | -- |
| 1,2,3,7,8-PeCDD | 0.0 | -- | -- | -- | -- | -- | -- |
| 1,2,3,7,8-PeCDF | 0.0 | -- | -- | -- | -- | -- | -- |
| 2,3,4,6,7,8-HxCDF | 0.0 | -- | -- | -- | -- | -- | -- |
| 2,3,4,7,8-PeCDF | 0.0 | -- | -- | -- | -- | -- | -- |
| 2,3,7,8-TCDD | 0.0 | 0.000010 | 0 | -- | -- | -- | -- |
| 2,3,7,8-TCDF | 0.0 | -- | -- | -- | -- | -- | -- |
| OCDD | 0.0 | -- | -- | -- | -- | -- | -- |
| OCDF | 0.0 | -- | -- | -- | -- | -- | -- |
| Total HpCDD | 0.0 | -- | -- | -- | -- | -- | -- |
| Total HpCDF | 0.0 | -- | -- | -- | -- | -- | -- |
| Total HxCDD | 0.0 | -- | -- | -- | -- | -- | -- |
| Total HxCDF | 0.0 | -- | -- | -- | -- | -- | -- |
| Total PeCDD | 0.0 | -- | -- | -- | -- | -- | -- |
| Total PeCDF | 0.0 | -- | -- | -- | -- | -- | -- |
| Total TCDD | 0.0 | 0.0 | #DIV/0! | 0.0 | #DIV/0! | -- | -- |
| Total TCDF | 0.0 | 0.0 | #DIV/0! | -- | -- | -- | -- |
| Total Avian TEQ | 0.0 | NA | -- | -- | -- | NA | -- |
| Total Fish Dioxin TEQ | 0.0 | 0.000010 | 0 | NA | #VALUE! | NA | #VALUE! |
| Total Mammalian TEQ | 0.0 | NA | -- | -- | -- | NA | |
| Herbicides | | | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.0 | -- | -- | -- | -- | -- | -- |
| Dalapon | 0.0 | -- | -- | -- | -- | -- | -- |
| Dichlorprop | 0.0 | -- | -- | -- | -- | -- | -- |
| MCDA | 0.0 | -- | -- | -- | -- | -- | -- |
| MCPP | 0.0 | -- | -- | -- | -- | -- | -- |

Table U.A5-12
Risk Estimates for Aquatic Life, Amphibians, and Aquatic Plants in Stormwater Impoundment Surface Water
Based on Maximum Concentrations

| CPEC | Stormwater Impoundments | | | | | | |
|--|--|--|------------------|--|------------------|--|------------------|
| | Surface Water EPC ($\mu\text{g/L}$) | Selected Surface Water Screening ^a ($\mu\text{g/L}$) | HQ (unitless) | Selected Amphibian Screening Value ^a ($\mu\text{g/L}$) | HQ (unitless) | Selected Plant Screening Value ^a ($\mu\text{g/L}$) | HQ (unitless) |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | | | |
| 2-Methylnaphthalene | 0.0 | -- | -- | -- | -- | -- | -- |
| Acenaphthene | 0.0 | -- | -- | -- | -- | -- | -- |
| Anthracene | 0.0 | -- | -- | -- | -- | -- | -- |
| Benzo(a)anthracene | 0.0 | 0.027 | 0 | 870 | 0 | 850 | 0 |
| Benzo(a)pyrene | 0.013 | 0.014 | 0.9 | 870 | 0.00001 | 850 | 0.00002 |
| Benzo(b)fluoranthene | 0.0 | 0.029 | 0 | 870 | 0 | 850 | 0 |
| Benzo(g,h,i)perylene | 0.0 | 0.10 | 0 | 870 | 0 | 850 | 0 |
| Benzo(k)fluoranthene | 0.0 | -- | -- | -- | -- | -- | -- |
| Chrysene | 0.0 | -- | -- | -- | -- | -- | -- |
| Dibenzo(a,h)anthracene | 0.0 | 7.5 | 0 | 870 | 0 | 850 | 0 |
| Fluoranthene | 0.0 | -- | -- | -- | -- | -- | -- |
| Fluorene | 0.0 | -- | -- | -- | -- | -- | -- |
| Indeno(1,2,3-c,d)pyrene | 0.0 | -- | -- | -- | -- | -- | -- |
| Naphthalene | 0.016 | 12 | 0.001 | 21 | 0.0008 | 33000 | 0.0000005 |
| Phenanthere | 0.0 | -- | -- | -- | -- | -- | -- |
| Pyrene | 0.0 | -- | -- | -- | -- | -- | -- |
| Total LMW PAH | 0.016 | 12 | 0.001 | 21 | 0.0008 | 33000 | 0.0000005 |
| Total HMW PAH | 0.013 | 0.014 | 0.9 | 870 | 0.00001 | 850 | 0.00002 |
| Polychlorinated Biphenyls (PCBs) | | | | | | | |
| Aroclor 1260 | 0.0 | -- | -- | -- | -- | -- | -- |
| Sum of PCB Congeners | 0.0 | -- | -- | -- | -- | -- | -- |
| Pesticides | | | | | | | |
| 4,4'-DDD | 0.0 | -- | -- | -- | -- | -- | -- |
| 4,4'-DDE | 0.0 | -- | -- | -- | -- | -- | -- |
| 4,4'-DDT | 0.0 | -- | -- | -- | -- | -- | -- |
| Total DDT | No Data | -- | 0 | -- | 0 | -- | 0 |
| Chlordane, alpha | 0.0 | -- | -- | -- | -- | -- | -- |
| Endosulfan I | 0.0 | -- | -- | -- | -- | -- | -- |
| Endosulfan II | 0.0 | -- | -- | -- | -- | -- | -- |
| Endosulfan sulfate | 0.0 | -- | -- | -- | -- | -- | -- |
| Endrin | 0.0 | -- | -- | -- | -- | -- | -- |
| Heptachlor | 0.0 | -- | -- | -- | -- | -- | -- |
| Hexachlorobenzene | 0.0 | -- | -- | -- | -- | -- | -- |
| Kepone | 0.0 | -- | -- | -- | -- | -- | -- |
| Methoxychlor | 0.0 | -- | -- | -- | -- | -- | -- |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | | | |
| Bis(2-chloroethyl)ether | 0.020 | 61 | 0.0003 | -- | -- | -- | -- |
| Bis(2-ethylhexyl)phthalate | 0.0 | 3.0 | 0 | 39 | 0 | 3200 | 0 |
| Diethylphthalate | 0.0 | -- | -- | -- | -- | -- | -- |
| N-Nitrosodiethylamine | 0.0 | -- | -- | -- | -- | -- | -- |
| N-Nitrosodipropylamine | 0.0 | 210 | 0 | -- | -- | -- | -- |
| N-Nitrosopyrrolidine | 0.55 | -- | -- | -- | -- | -- | -- |
| Volatile Organic Compounds (VOCs) | | | | | | | |
| 1,1,1-Trichloroethane | 0.0 | -- | -- | -- | -- | -- | -- |
| 1,1-Dichloroethane | 0.0 | 47 | 0 | 0.20 | 0 | -- | -- |
| 1,1-Dichloroethylene | 0.0 | -- | -- | -- | -- | -- | -- |
| 1,2-Dibromoethane (EDB) | 0.012 | 1400 | 0.000009 | -- | -- | -- | -- |
| 1,2-Dichloroethene | 0.0 | -- | -- | -- | -- | -- | -- |
| Acetone | No Data | 1500 | -- | 20 | -- | 122 | -- |
| Acetonitrile | No Data | 76 | -- | 116 | -- | -- | -- |
| Acrolein | 0.0 | -- | -- | -- | -- | -- | -- |
| Benzene | 0.0 | -- | -- | -- | -- | -- | -- |
| Carbon disulfide | 0.0 | 0.92 | 0 | 1.2 | 0 | -- | -- |

Table U.A5-12
Risk Estimates for Aquatic Life, Amphibians, and Aquatic Plants in Stormwater Impoundment Surface Water
Based on Maximum Concentrations

| CPEC | Stormwater Impoundments | | | | | | |
|---|--|---|------------------|---|------------------|---|------------------|
| | Surface Water EPC ($\mu\text{g/L}$) | Selected Surface Water Screening ^a ($\mu\text{g/L}$) | HQ (unitless) | Selected Amphibian Screening Value ^a ($\mu\text{g/L}$) | HQ (unitless) | Selected Plant Screening Value ^a ($\mu\text{g/L}$) | HQ (unitless) |
| Diisopropyl ether | 0.0 | -- | -- | -- | -- | -- | -- |
| Ethylbenzene | 0.0 | -- | -- | -- | -- | -- | -- |
| Ethylene glycol | No Data | 2000 | -- | 3260 | -- | 546000 | -- |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0 | -- | -- | -- | -- | -- | -- |
| Isopropanol | 0.0 | -- | -- | -- | -- | -- | -- |
| Methyl ethyl ketone | 0.0 | -- | -- | -- | -- | -- | -- |
| Methyl isobutyl ketone (MIBK) | No Data | 170 | -- | -- | -- | 410 | -- |
| Methylcyclopentane | 0.0 | -- | -- | -- | -- | -- | -- |
| Methylene chloride | 7.0 | 2200 | 0.003 | 122 | 0.06 | -- | -- |
| Nonanal | 0.0 | -- | -- | -- | -- | -- | -- |
| Propanal | 0.0 | -- | -- | -- | -- | 7960 | 0 |
| Tert-Butyl alcohol (TBA) | 0.0 | -- | -- | -- | -- | -- | -- |
| Tetrachloroethylene | 0.0 | -- | -- | -- | -- | -- | -- |
| Tetrahydrofuran | 0.0 | -- | -- | -- | -- | -- | -- |
| Toluene | 0.0 | -- | -- | -- | -- | -- | -- |
| Trichloroethylene | 0.0 | 360 | 0 | 450 | 0 | 317 | 0 |

Table U.A5-13
Risk Estimates for Aquatic Life, Amphibians, and Aquatic Plants in Exposure Unit Surface Water
Based on Maximum Concentrations

| CPEC | A-Series Pond | | | | | | | | | |
|--|--|--|------------------|--|------------------|--|------------------|---|------------------|--|
| | Surface Water EPC ($\mu\text{g/L}$) | Selected Surface Water Screening ^a ($\mu\text{g/L}$) | HQ (unitless) | Selected Amphibian Screening Value ^a ($\mu\text{g/L}$) | HQ (unitless) | Selected Plant Screening Value ^a ($\mu\text{g/L}$) | HQ (unitless) | AWQC for Aquatic Life (acute/CMC) ^b ($\mu\text{g/L}$) | HQ (unitless) | |
| Inorganics | | | | | | | | | | |
| Antimony | 1.0 | 30 | 0.033 | 3.0 | 0.33 | 610 | 0.0016 | -- | -- | |
| Arsenic | 290 | 150 | 1.9 | 0.40 | 725 | 48 | 6.0 | 340 | 0.0057 | |
| Barium | 140 | 4.0 | 35 | 2.3 | 61 | 15000000 | 0.0000093 | -- | -- | |
| Beryllium | 0.019 | 0.66 | 0.029 | 0.032 | 0.60 | 100000 | 0.00000019 | -- | -- | |
| Cadmium | 0.20 | 3.0 | 0.067 | 0.016 | 13 | 2.0 | 0.10 | 3.0 | 0.022 | |
| Chromium | 30 | 250 | 0.12 | 0.30 | 100 | 397 | 0.076 | 794 | 0.00015 | |
| Cobalt | 0.0 | 23 | 0.0 | 0.50 | 0.0 | 60 | 0.0 | -- | -- | |
| Copper | 6.1 | 13 | 0.47 | 0.010 | 610 | 1.0 | 6.1 | 20 | 0.024 | |
| Lead | 0.0 | 3.9 | 0.0 | 0.40 | 0.0 | 500 | 0.0 | 100 | 0.0 | |
| Manganese | 530 | 120 | 4.4 | 0.50 | 1060 | 4000 | 0.13 | -- | -- | |
| Mercury | 0.21 | 0.77 | 0.27 | 0.010 | 21 | 5.0 | 0.042 | 1.4 | 0.19 | |
| Molybdenum | 42 | 370 | 0.11 | 0.40 | 105 | 500 | 0.084 | -- | -- | |
| Nickel | 440 | 73 | 6.0 | 0.020 | 22000 | 5.0 | 88 | 660 | 0.0091 | |
| Selenium | 820 | 5.0 | 164 | 0.90 | 911 | 100 | 8.2 | 290 | 0.57 | |
| Silver | 0.0 | 0.36 | 0.0 | 0.041 | 0.0 | 30 | 0.0 | 6.5 | 0.0 | |
| Thallium | 0.0 | 12 | 0.0 | 0.10 | 0.0 | 100 | 0.0 | -- | -- | |
| Tin | No Data | 73 | -- | 0.020 | -- | 100000 | -- | -- | -- | |
| Vanadium | 63 | 20 | 3.2 | 0.030 | 2100 | 200 | 0.32 | -- | -- | |
| Zinc | 98 | 170 | 0.58 | 0.047 | 2085 | 30 | 3.3 | 165 | 0.0035 | |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | | | | | | |
| Benzo(a)anthracene | 0.0 | 0.027 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- | |
| Benzo(a)pyrene | 0.0 | 0.014 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- | |
| Benzo(b)fluoranthene | 0.0 | 0.029 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- | |
| Benzo(g,h,i)perylene | 0.0 | 0.10 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- | |
| Dibenzo(a,h)anthracene | 0.0 | 7.5 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- | |
| Naphthalene | 0.013 | 12 | 0.0011 | 21 | 0.00062 | 33000 | 0.00000039 | -- | -- | |
| Total LMW PAH | 0.013 | 12 | 0.0011 | 21 | 0.00062 | 33000 | 0.00000039 | -- | -- | |
| Total HMW PAH | 0.0 | 0.014 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- | |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | | | | | | |
| Bis(2-chloroethyl)ether | 0.020 | 61 | 0.00033 | -- | -- | -- | -- | -- | -- | |
| Bis(2-ethylhexyl)phthalate | 0.0 | 3.0 | 0.0 | 39 | 0.0 | 3200 | 0.0 | -- | -- | |
| N-Nitrosodimethylamine | 0.0 | -- | -- | -- | -- | -- | -- | -- | -- | |
| N-Nitrosodipropylamine | 0.0 | 210 | 0.0 | -- | -- | -- | -- | -- | -- | |
| N-Nitrosopyrrolidine | 0.36 | -- | -- | -- | -- | -- | -- | -- | -- | |
| Volatile Organic Compounds (VOCs) | | | | | | | | | | |
| 1,1-Dichloroethane | 0.0 | 47 | 0.0 | 0.20 | 0.0 | -- | -- | -- | -- | |
| 1,2-Dibromoethane (EDB) | 0.012 | 1400 | 0.0000086 | -- | -- | -- | -- | -- | -- | |
| Acetone | No Data | 1500 | -- | 20 | -- | 122 | -- | -- | -- | |
| Acetonitrile | No Data | 76 | -- | 116 | -- | -- | -- | -- | -- | |
| Carbon disulfide | 0.0 | 0.92 | 0.0 | 1.2 | 0.0 | -- | -- | -- | -- | |
| Ethylene glycol | No Data | 2000 | -- | 3260 | -- | 546000 | -- | -- | -- | |
| Methyl isobutyl ketone (MIBK) | No Data | 170 | -- | -- | -- | 410 | -- | -- | -- | |
| Methylene chloride | 0.0 | 2200 | 0.0 | 122 | 0.0 | -- | -- | -- | -- | |
| Nonanal | 0.0 | -- | -- | -- | -- | -- | -- | -- | -- | |
| Propanal | 0.0 | -- | -- | -- | -- | 7960 | 0.0 | -- | -- | |
| Trichloroethylene | 0.0 | 360 | 0.0 | 450 | 0.0 | 317 | 0.0 | -- | -- | |

Table U.A5-13
Risk Estimates for Aquatic Life, Amphibians, and Aquatic Plants in Exposure Unit Surface Water
Based on Maximum Concentrations

| CPEC | RCF Pond | | | | | | | | |
|--|-----------------------------|--|------------------|---|------------------|--|------------------|---|------------------|
| | Surface Water EPC (µg/L) | Selected Surface Water Screening ^a (µg/L) | HQ (unitless) | Selected Amphibian Screening Value ^a (µg/L) | HQ (unitless) | Selected Plant Screening Value ^a (µg/L) | HQ (unitless) | AWQC for Aquatic Life (acute/CMC) ^b (µg/L) | HQ (unitless) |
| Inorganics | | | | | | | | | |
| Antimony | 0.0 | 30 | 0.0 | 3.0 | 0.0 | 610 | 0.0 | -- | -- |
| Arsenic | 400 | 150 | 2.7 | 0.40 | 1000 | 48 | 8.3 | 340 | 0.0078 |
| Barium | 190 | 4.0 | 48 | 2.3 | 83 | 15000000 | 0.0000013 | -- | -- |
| Beryllium | 0.095 | 0.66 | 0.14 | 0.032 | 3.0 | 100000 | 0.00000095 | -- | -- |
| Cadmium | 0.0 | 3.0 | 0.0 | 0.016 | 0.0 | 2.0 | 0.0 | 3.0 | 0.0 |
| Chromium | 60 | 250 | 0.24 | 0.30 | 200 | 397 | 0.15 | 794 | 0.00030 |
| Cobalt | 0.0 | 23 | 0.0 | 0.50 | 0.0 | 60 | 0.0 | -- | -- |
| Copper | 0.0 | 13 | 0.0 | 0.010 | 0.0 | 1.0 | 0.0 | 20 | 0.0 |
| Lead | 9.6 | 3.9 | 2.5 | 0.40 | 24 | 500 | 0.019 | 100 | 0.025 |
| Manganese | 170 | 120 | 1.4 | 0.50 | 340 | 4000 | 0.043 | -- | -- |
| Mercury | 0.058 | 0.77 | 0.075 | 0.010 | 5.8 | 5.0 | 0.012 | 1.4 | 0.054 |
| Molybdenum | 47 | 370 | 0.13 | 0.40 | 118 | 500 | 0.094 | -- | -- |
| Nickel | 460 | 73 | 6.3 | 0.020 | 23000 | 5.0 | 92 | 660 | 0.0095 |
| Selenium | 1600 | 5.0 | 320 | 0.90 | 1778 | 100 | 16 | 290 | 1.1 |
| Silver | 0.0 | 0.36 | 0.0 | 0.041 | 0.0 | 30 | 0.0 | 6.5 | 0.0 |
| Thallium | 0.0 | 12 | 0.0 | 0.10 | 0.0 | 100 | 0.0 | -- | -- |
| Tin | No Data | 73 | -- | 0.020 | -- | 100000 | -- | -- | -- |
| Vanadium | 0.0 | 20 | 0.0 | 0.030 | 0.0 | 200 | 0.0 | -- | -- |
| Zinc | 45 | 170 | 0.26 | 0.047 | 957 | 30 | 1.5 | 165 | 0.0016 |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | | | | | |
| Benzo(a)anthracene | 0.0 | 0.027 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- |
| Benzo(a)pyrene | 0.013 | 0.014 | 0.93 | 870 | 0.000015 | 850 | 0.000015 | -- | -- |
| Benzo(b)fluoranthene | 0.0 | 0.029 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- |
| Benzo(g,h,i)perylene | 0.0 | 0.10 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- |
| Dibenzo(a,h)anthracene | 0.0 | 7.5 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- |
| Naphthalene | 0.016 | 12 | 0.0013 | 21 | 0.00076 | 33000 | 0.00000048 | -- | -- |
| Total LMW PAH | 0.016 | 12 | 0.0013 | 21 | 0.00076 | 33000 | 0.00000048 | -- | -- |
| Total HMW PAH | 0.013 | 0.014 | 0.93 | 870 | 0.000015 | 850 | 0.000015 | -- | -- |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | | | | | |
| Bis(2-chloroethyl)ether | 0.018 | 61 | 0.00030 | -- | -- | -- | -- | -- | -- |
| Bis(2-ethylhexyl)phthalate | 0.0 | 3.0 | 0.0 | 39 | 0.0 | 3200 | 0.0 | -- | -- |
| N-Nitrosodiethylamine | 0.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| N-Nitrosodipropylamine | 0.0 | 210 | 0.0 | -- | -- | -- | -- | -- | -- |
| N-Nitrosopyrrolidine | 0.035 | -- | -- | -- | -- | -- | -- | -- | -- |
| Volatile Organic Compounds (VOCs) | | | | | | | | | |
| 1,1-Dichloroethane | 0.0 | 47 | 0.0 | 0.20 | 0.0 | -- | -- | -- | -- |
| 1,2-Dibromoethane (EDB) | 0.0054 | 1400 | 0.0000039 | -- | -- | -- | -- | -- | -- |
| Acetone | No Data | 1500 | -- | 20 | -- | 122 | -- | -- | -- |
| Acetonitrile | No Data | 76 | -- | 116 | -- | -- | -- | -- | -- |
| Carbon disulfide | 0.0 | 0.92 | 0.0 | 1.2 | 0.0 | -- | -- | -- | -- |
| Ethylene glycol | No Data | 2000 | -- | 3260 | -- | 546000 | -- | -- | -- |
| Methyl isobutyl ketone (MIBK) | No Data | 170 | -- | -- | -- | 410 | -- | -- | -- |
| Methylene chloride | 7.0 | 2200 | 0.0032 | 122 | 0.057 | -- | -- | -- | -- |
| Nonanal | 0.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| Propanal | 0.0 | -- | -- | -- | -- | 7960 | 0.0 | -- | -- |
| Trichloroethylene | 0.0 | 360 | 0.0 | 450 | 0.0 | 317 | 0.0 | -- | -- |

Table U.A5-13
Risk Estimates for Aquatic Life, Amphibians, and Aquatic Plants in Exposure Unit Surface Water
Based on Maximum Concentrations

| CPEC | Pond A-5 | | | | | | | | | |
|--|-----------------------------|--|------------------|--|------------------|--|------------------|---|------------------|--|
| | Surface Water EPC (µg/L) | Selected Surface Water Screening ^a (µg/L) | HQ (unitless) | Selected Amphibian Screening Value ^a (µg/L) | HQ (unitless) | Selected Plant Screening Value ^a (µg/L) | HQ (unitless) | AWQC for Aquatic Life (acute/CMC) ^b (µg/L) | HQ (unitless) | |
| Inorganics | | | | | | | | | | |
| Antimony | 1.1 | 30 | 0.037 | 3.0 | 0.37 | 610 | 0.0018 | -- | -- | |
| Arsenic | 250 | 150 | 1.7 | 0.40 | 625 | 48 | 5.2 | 340 | 0.0049 | |
| Barium | 150 | 4.0 | 38 | 2.3 | 65 | 15000000 | 0.0000010 | -- | -- | |
| Beryllium | 0.35 | 0.66 | 0.53 | 0.032 | 11 | 100000 | 0.0000035 | -- | -- | |
| Cadmium | 0.0 | 3.0 | 0.0 | 0.016 | 0.0 | 2.0 | 0.0 | 3.0 | 0.0 | |
| Chromium | 97 | 250 | 0.39 | 0.30 | 323 | 397 | 0.24 | 794 | 0.00049 | |
| Cobalt | 0.0 | 23 | 0.0 | 0.50 | 0.0 | 60 | 0.0 | -- | -- | |
| Copper | 21 | 13 | 1.6 | 0.010 | 2100 | 1.0 | 21 | 20 | 0.082 | |
| Lead | 0.0 | 3.9 | 0.0 | 0.40 | 0.0 | 500 | 0.0 | 100 | 0.0 | |
| Manganese | 2000 | 120 | 17 | 0.50 | 4000 | 4000 | 0.50 | -- | -- | |
| Mercury | 0.092 | 0.77 | 0.12 | 0.010 | 9.2 | 5.0 | 0.018 | 1.4 | 0.085 | |
| Molybdenum | 63 | 370 | 0.17 | 0.40 | 158 | 500 | 0.13 | -- | -- | |
| Nickel | 540 | 73 | 7.4 | 0.020 | 27000 | 5.0 | 108 | 660 | 0.011 | |
| Selenium | 940 | 5.0 | 188 | 0.90 | 1044 | 100 | 9.4 | 290 | 0.65 | |
| Silver | 0.0 | 0.36 | 0.0 | 0.041 | 0.0 | 30 | 0.0 | 6.5 | 0.0 | |
| Thallium | 0.0 | 12 | 0.0 | 0.10 | 0.0 | 100 | 0.0 | -- | -- | |
| Tin | No Data | 73 | -- | 0.020 | -- | 100000 | -- | -- | -- | |
| Vanadium | 54 | 20 | 2.7 | 0.030 | 1800 | 200 | 0.27 | -- | -- | |
| Zinc | 79 | 170 | 0.46 | 0.047 | 1681 | 30 | 2.6 | 165 | 0.0028 | |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | | | | | | |
| Benzo(a)anthracene | 0.0 | 0.027 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- | |
| Benzo(a)pyrene | 0.0 | 0.014 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- | |
| Benzo(b)fluoranthene | 0.0 | 0.029 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- | |
| Benzo(g,h,i)perylene | 0.0 | 0.10 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- | |
| Dibenz(a,h)anthracene | 0.0 | 7.5 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- | |
| Naphthalene | 0.0 | 12 | 0.0 | 21 | 0.0 | 33000 | 0.0 | -- | -- | |
| Total LMW PAH | 0.0 | 12 | 0.0 | 21 | 0.0 | 33000 | 0.0 | -- | -- | |
| Total HMW PAH | 0.0 | 0.014 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- | |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | | | | | | |
| Bis(2-chloroethyl)ether | 0.0 | 61 | 0.0 | -- | -- | -- | -- | -- | -- | |
| Bis(2-ethylhexyl)phthalate | 51 | 3.0 | 17 | 39 | 1.3 | 3200 | 0.016 | -- | -- | |
| N-Nitrosodiethylamine | 0.0 | -- | -- | -- | -- | -- | -- | -- | -- | |
| N-Nitrosodipropylamine | 0.49 | 210 | 0.0023 | -- | -- | -- | -- | -- | -- | |
| N-Nitrosopyrrolidine | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | |
| Volatile Organic Compounds (VOCs) | | | | | | | | | | |
| 1,1-Dichloroethane | 1.3 | 47 | 0.028 | 0.20 | 6.5 | -- | -- | -- | -- | |
| 1,2-Dibromoethane (EDB) | 0.0028 | 1400 | 0.0000020 | -- | -- | -- | -- | -- | -- | |
| Acetone | 18 | 1500 | 0.012 | 20 | 0.91 | 122 | 0.15 | -- | -- | |
| Acetonitrile | No Data | 76 | -- | 116 | -- | -- | -- | -- | -- | |
| Carbon disulfide | 0.0 | 0.92 | 0.0 | 1.2 | 0.0 | -- | -- | -- | -- | |
| Ethylene glycol | No Data | 2000 | -- | 3260 | -- | 546000 | -- | -- | -- | |
| Methyl isobutyl ketone (MIBK) | No Data | 170 | -- | -- | -- | 410 | -- | -- | -- | |
| Methylene chloride | 0.0 | 2200 | 0.0 | 122 | 0.0 | -- | -- | -- | -- | |
| Nonanal | 0.0 | -- | -- | -- | -- | -- | -- | -- | -- | |
| Propanal | 12 | -- | -- | -- | -- | 7960 | 0.0015 | -- | -- | |
| Trichloroethylene | 1.3 | 360 | 0.0036 | 450 | 0.0029 | 317 | 0.0041 | -- | -- | |

Table U.A5-13
Risk Estimates for Aquatic Life, Amphibians, and Aquatic Plants in Exposure Unit Surface Water
Based on Maximum Concentrations

| CPEC | Pond 13 | | | | | | | | | |
|--|-----------------------------|--|------------------|--|------------------|--|------------------|---|------------------|--|
| | Surface Water EPC (µg/L) | Selected Surface Water Screening ^a (µg/L) | HQ (unitless) | Selected Amphibian Screening Value ^a (µg/L) | HQ (unitless) | Selected Plant Screening Value ^a (µg/L) | HQ (unitless) | AWQC for Aquatic Life (acute/CMC) ^b (µg/L) | HQ (unitless) | |
| Inorganics | | | | | | | | | | |
| Antimony | 0.0 | 30 | 0.0 | 3.0 | 0.0 | 610 | 0.0 | -- | -- | |
| Arsenic | 710 | 150 | 4.7 | 0.40 | 1775 | 48 | 15 | 340 | 0.014 | |
| Barium | 150 | 4.0 | 38 | 2.3 | 65 | 15000000 | 0.000010 | -- | -- | |
| Beryllium | 0.44 | 0.66 | 0.67 | 0.032 | 14 | 100000 | 0.000044 | -- | -- | |
| Cadmium | 0.0 | 3.0 | 0.0 | 0.016 | 0.0 | 2.0 | 0.0 | 3.0 | 0.0 | |
| Chromium | 92 | 250 | 0.37 | 0.30 | 307 | 397 | 0.23 | 794 | 0.00046 | |
| Cobalt | 0.0 | 23 | 0.0 | 0.50 | 0.0 | 60 | 0.0 | -- | -- | |
| Copper | 0.0 | 13 | 0.0 | 0.010 | 0.0 | 1.0 | 0.0 | 20 | 0.0 | |
| Lead | 0.0 | 3.9 | 0.0 | 0.40 | 0.0 | 500 | 0.0 | 100 | 0.0 | |
| Manganese | 490 | 120 | 4.1 | 0.50 | 980 | 4000 | 0.12 | -- | -- | |
| Mercury | 0.13 | 0.77 | 0.17 | 0.010 | 13 | 5.0 | 0.026 | 1.4 | 0.12 | |
| Molybdenum | 43 | 370 | 0.12 | 0.40 | 108 | 500 | 0.086 | -- | -- | |
| Nickel | 2000 | 73 | 27 | 0.020 | 100000 | 5.0 | 400 | 660 | 0.042 | |
| Selenium | 2900 | 5.0 | 580 | 0.90 | 3222 | 100 | 29 | 290 | 2.0 | |
| Silver | 0.0 | 0.36 | 0.0 | 0.041 | 0.0 | 30 | 0.0 | 6.5 | 0.0 | |
| Thallium | 0.0 | 12 | 0.0 | 0.10 | 0.0 | 100 | 0.0 | -- | -- | |
| Tin | No Data | 73 | -- | 0.020 | -- | 100000 | -- | -- | -- | |
| Vanadium | 0.0 | 20 | 0.0 | 0.030 | 0.0 | 200 | 0.0 | -- | -- | |
| Zinc | 30 | 170 | 0.18 | 0.047 | 638 | 30 | 1.0 | 165 | 0.0011 | |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | | | | | | |
| Benzo(a)anthracene | 0.0 | 0.027 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- | |
| Benzo(a)pyrene | 0.013 | 0.014 | 0.93 | 870 | 0.000015 | 850 | 0.000015 | -- | -- | |
| Benzo(b)fluoranthene | 0.0 | 0.029 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- | |
| Benzo(g,h,i)perylene | 0.0 | 0.10 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- | |
| Dibenz(a,h)anthracene | 0.0 | 7.5 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- | |
| Naphthalene | 0.013 | 12 | 0.0011 | 21 | 0.00062 | 33000 | 0.0000039 | -- | -- | |
| Total LMW PAH | 0.013 | 12 | 0.0011 | 21 | 0.00062 | 33000 | 0.0000039 | -- | -- | |
| Total HMW PAH | 0.013 | 0.014 | 0.93 | 870 | 0.000015 | 850 | 0.000015 | -- | -- | |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | | | | | | |
| Bis(2-chloroethyl)ether | 0.0 | 61 | 0.0 | -- | -- | -- | -- | -- | -- | |
| Bis(2-ethylhexyl)phthalate | 0.0 | 3.0 | 0.0 | 39 | 0.0 | 3200 | 0.0 | -- | -- | |
| N-Nitrosodiethylamine | 0.0 | -- | -- | -- | -- | -- | -- | -- | -- | |
| N-Nitrosodipropylamine | 0.0 | 210 | 0.0 | -- | -- | -- | -- | -- | -- | |
| N-Nitrosopyrrolidine | 0.55 | -- | -- | -- | -- | -- | -- | -- | -- | |
| Volatile Organic Compounds (VOCs) | | | | | | | | | | |
| 1,1-Dichloroethane | 0.0 | 47 | 0.0 | 0.20 | 0.0 | -- | -- | -- | -- | |
| 1,2-Dibromoethane (EDB) | 0.0068 | 1400 | 0.000049 | -- | -- | -- | -- | -- | -- | |
| Acetone | No Data | 1500 | -- | 20 | -- | 122 | -- | -- | -- | |
| Acetonitrile | No Data | 76 | -- | 116 | -- | -- | -- | -- | -- | |
| Carbon disulfide | 0.0 | 0.92 | 0.0 | 1.2 | 0.0 | -- | -- | -- | -- | |
| Ethylene glycol | No Data | 2000 | -- | 3260 | -- | 546000 | -- | -- | -- | |
| Methyl isobutyl ketone (MIBK) | No Data | 170 | -- | -- | -- | 410 | -- | -- | -- | |
| Methylene chloride | 1.5 | 2200 | 0.00068 | 122 | 0.012 | -- | -- | -- | -- | |
| Nonanal | 0.0 | -- | -- | -- | -- | -- | -- | -- | -- | |
| Propanal | 0.0 | -- | -- | -- | -- | 7960 | 0.0 | -- | -- | |
| Trichloroethylene | 0.0 | 360 | 0.0 | 450 | 0.0 | 317 | 0.0 | -- | -- | |

Table U.A5-13
Risk Estimates for Aquatic Life, Amphibians, and Aquatic Plants in Exposure Unit Surface Water
Based on Maximum Concentrations

| CPEC | Pond 18 | | | | | | | | AWQC for Aquatic Life (acute/CMC) ^b ($\mu\text{g/L}$) | HQ (unitless) |
|--|--|--|------------------|--|------------------|--|------------------|-----|--|---------------|
| | Surface Water EPC ($\mu\text{g/L}$) | Selected Surface Water Screening ^a ($\mu\text{g/L}$) | HQ (unitless) | Selected Amphibian Screening Value ^a ($\mu\text{g/L}$) | HQ (unitless) | Selected Plant Screening Value ^a ($\mu\text{g/L}$) | HQ (unitless) | | | |
| Inorganics | | | | | | | | | | |
| Antimony | 0.64 | 30 | 0.021 | 3.0 | 0.21 | 610 | 0.0010 | -- | -- | -- |
| Arsenic | 90 | 150 | 0.60 | 0.40 | 225 | 48 | 1.9 | 340 | 0.0018 | |
| Barium | 200 | 4.0 | 50 | 2.3 | 87 | 15000000 | 0.000013 | -- | -- | |
| Beryllium | 0.16 | 0.66 | 0.24 | 0.032 | 5.1 | 100000 | 0.0000016 | -- | -- | |
| Cadmium | 0.57 | 3.0 | 0.19 | 0.016 | 36 | 2.0 | 0.29 | 3.0 | 0.064 | |
| Chromium | 41 | 250 | 0.16 | 0.30 | 137 | 397 | 0.10 | 794 | 0.00021 | |
| Cobalt | 0.0 | 23 | 0.0 | 0.50 | 0.0 | 60 | 0.0 | -- | -- | |
| Copper | 10 | 13 | 0.77 | 0.010 | 1000 | 1.0 | 10 | 20 | 0.039 | |
| Lead | 0.12 | 3.9 | 0.031 | 0.40 | 0.30 | 500 | 0.00024 | 100 | 0.00031 | |
| Manganese | 290 | 120 | 2.4 | 0.50 | 580 | 4000 | 0.073 | -- | -- | |
| Mercury | 0.17 | 0.77 | 0.22 | 0.010 | 17 | 5.0 | 0.034 | 1.4 | 0.16 | |
| Molybdenum | 61 | 370 | 0.16 | 0.40 | 153 | 500 | 0.12 | -- | -- | |
| Nickel | 330 | 73 | 4.5 | 0.020 | 16500 | 5.0 | 66 | 660 | 0.0069 | |
| Selenium | 360 | 5.0 | 72 | 0.90 | 400 | 100 | 3.6 | 290 | 0.25 | |
| Silver | 0.46 | 0.36 | 1.3 | 0.041 | 11 | 30 | 0.015 | 6.5 | 0.20 | |
| Thallium | 1.0 | 12 | 0.083 | 0.10 | 10 | 100 | 0.010 | -- | -- | |
| Tin | No Data | 73 | -- | 0.020 | -- | 100000 | -- | -- | -- | |
| Vanadium | 34 | 20 | 1.7 | 0.030 | 1133 | 200 | 0.17 | -- | -- | |
| Zinc | 76 | 170 | 0.45 | 0.047 | 1617 | 30 | 2.5 | 165 | 0.0027 | |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | | | | | | |
| Benzo(a)anthracene | 0.010 | 0.027 | 0.37 | 870 | 0.000011 | 850 | 0.000012 | -- | -- | |
| Benzo(a)pyrene | 0.0 | 0.014 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- | |
| Benzo(b)fluoranthene | 0.0 | 0.029 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- | |
| Benzo(g,h,i)perylene | 0.0 | 0.10 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- | |
| Dibenz(a,h)anthracene | 0.013 | 7.5 | 0.0017 | 870 | 0.000015 | 850 | 0.000015 | -- | -- | |
| Naphthalene | 0.0 | 12 | 0.0 | 21 | 0.0 | 33000 | 0.0 | -- | -- | |
| Total LMW PAH | 0.0 | 12 | 0.0 | 21 | 0.0 | 33000 | 0.0 | -- | -- | |
| Total HMW PAH | 0.023 | 0.014 | 1.6 | 870 | 0.000026 | 850 | 0.000027 | -- | -- | |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | | | | | | |
| Bis(2-chloroethyl)ether | 0.0 | 61 | 0.0 | -- | -- | -- | -- | -- | -- | |
| Bis(2-ethylhexyl)phthalate | 0.0 | 3.0 | 0.0 | 39 | 0.0 | 3200 | 0.0 | -- | -- | |
| N-Nitrosodiethylamine | 0.19 | -- | -- | -- | -- | -- | -- | -- | -- | |
| N-Nitrosodipropylamine | 0.0 | 210 | 0.0 | -- | -- | -- | -- | -- | -- | |
| N-Nitrosopyrrolidine | 0.0 | -- | -- | -- | -- | -- | -- | -- | -- | |
| Volatile Organic Compounds (VOCs) | | | | | | | | | | |
| 1,1-Dichloroethane | 0.44 | 47 | 0.0094 | 0.20 | 2.2 | -- | -- | -- | -- | |
| 1,2-Dibromoethane (EDB) | 0.0 | 1400 | 0.0 | -- | -- | -- | -- | -- | -- | |
| Acetone | No Data | 1500 | -- | 20 | -- | 122 | -- | -- | -- | |
| Acetonitrile | No Data | 76 | -- | 116 | -- | -- | -- | -- | -- | |
| Carbon disulfide | 0.43 | 0.92 | 0.47 | 1.2 | 0.36 | -- | -- | -- | -- | |
| Ethylene glycol | No Data | 2000 | -- | 3260 | -- | 546000 | -- | -- | -- | |
| Methyl isobutyl ketone (MIBK) | No Data | 170 | -- | -- | -- | 410 | -- | -- | -- | |
| Methylene chloride | 0.50 | 2200 | 0.00023 | 122 | 0.0041 | -- | -- | -- | -- | |
| Nonanal | 0.0 | -- | -- | -- | -- | -- | -- | -- | -- | |
| Propanal | 14 | -- | -- | -- | -- | 7960 | 0.0018 | -- | -- | |
| Trichloroethylene | 1.2 | 360 | 0.0033 | 450 | 0.0027 | 317 | 0.0038 | -- | -- | |

Table U.A5-13
Risk Estimates for Aquatic Life, Amphibians, and Aquatic Plants in Exposure Unit Surface Water
Based on Maximum Concentrations

| CPEC | North Drainage | | | | | | | | |
|--|-----------------------------|---|------------------|---|------------------|---|------------------|---|------------------|
| | Surface Water EPC (µg/L) | Selected Surface Water Screening ^a (µg/L) | HQ (unitless) | Selected Amphibian Screening Value ^a (µg/L) | HQ (unitless) | Selected Plant Screening Value ^a (µg/L) | HQ (unitless) | AWQC for Aquatic Life (acute/CMC) ^b (µg/L) | HQ (unitless) |
| Inorganics | | | | | | | | | |
| Antimony | 0.63 | 30 | 0.021 | 3.0 | 0.21 | 610 | 0.0010 | -- | -- |
| Arsenic | 23 | 150 | 0.15 | 0.40 | 58 | 48 | 0.48 | 340 | 0.00045 |
| Barium | 100 | 4.0 | 25 | 2.3 | 43 | 15000000 | 0.0000067 | -- | -- |
| Beryllium | 1.6 | 0.66 | 2.4 | 0.032 | 51 | 100000 | 0.000016 | -- | -- |
| Cadmium | 4.2 | 3.0 | 1.4 | 0.016 | 266 | 2.0 | 2.1 | 3.0 | 0.47 |
| Chromium | 10 | 250 | 0.040 | 0.30 | 33 | 397 | 0.025 | 794 | 0.000050 |
| Cobalt | 11 | 23 | 0.48 | 0.50 | 22 | 60 | 0.18 | -- | -- |
| Copper | 7.0 | 13 | 0.54 | 0.010 | 700 | 1.0 | 7.0 | 20 | 0.027 |
| Lead | 20 | 3.9 | 5.1 | 0.40 | 50 | 500 | 0.040 | 100 | 0.051 |
| Manganese | 1400 | 120 | 12 | 0.50 | 2800 | 4000 | 0.35 | -- | -- |
| Mercury | 0.050 | 0.77 | 0.065 | 0.010 | 5.0 | 5.0 | 0.010 | 1.4 | 0.046 |
| Molybdenum | 68 | 370 | 0.18 | 0.40 | 170 | 500 | 0.14 | -- | -- |
| Nickel | 35 | 73 | 0.48 | 0.020 | 1750 | 5.0 | 7.0 | 660 | 0.00073 |
| Selenium | 120 | 5.0 | 24 | 0.90 | 133 | 100 | 1.2 | 290 | 0.083 |
| Silver | 1.0 | 0.36 | 2.8 | 0.041 | 24 | 30 | 0.033 | 6.5 | 0.43 |
| Thallium | 1.0 | 12 | 0.083 | 0.10 | 10 | 100 | 0.010 | -- | -- |
| Tin | No Data | 73 | -- | 0.020 | -- | 100000 | -- | -- | -- |
| Vanadium | 160 | 20 | 8.0 | 0.030 | 5333 | 200 | 0.80 | -- | -- |
| Zinc | 170 | 170 | 1.0 | 0.047 | 3617 | 30 | 5.7 | 165 | 0.0061 |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | | | | | |
| Benzo(a)anthracene | 0.011 | 0.027 | 0.41 | 870 | 0.000013 | 850 | 0.000013 | -- | -- |
| Benzo(a)pyrene | 0.016 | 0.014 | 1.1 | 870 | 0.000018 | 850 | 0.000019 | -- | -- |
| Benzo(b)fluoranthene | 0.057 | 0.029 | 2.0 | 870 | 0.000066 | 850 | 0.000067 | -- | -- |
| Benzo(g,h,i)perylene | 0.016 | 0.10 | 0.16 | 870 | 0.000018 | 850 | 0.000019 | -- | -- |
| Dibenzo(a,h)anthracene | 0.022 | 7.5 | 0.0029 | 870 | 0.000025 | 850 | 0.000026 | -- | -- |
| Naphthalene | 0.0 | 12 | 0.0 | 21 | 0.0 | 33000 | 0.0 | -- | -- |
| Total LMW PAH | 0.0 | 12 | 0.0 | 21 | 0.0 | 33000 | 0.0 | -- | -- |
| Total HMW PAH | 0.12 | 0.014 | 8.7 | 870 | 0.00014 | 850 | 0.00014 | -- | -- |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | | | | | |
| Bis(2-chloroethyl)ether | 0.092 | 61 | 0.0015 | -- | -- | -- | -- | -- | -- |
| Bis(2-ethylhexyl)phthalate | 1.6 | 3.0 | 0.53 | 39 | 0.041 | 3200 | 0.00050 | -- | -- |
| N-Nitrosodiethylamine | 0.067 | -- | -- | -- | -- | -- | -- | -- | -- |
| N-Nitrosodipropylamine | 0.086 | 210 | 0.00041 | -- | -- | -- | -- | -- | -- |
| N-Nitrosopyrrolidine | 0.094 | -- | -- | -- | -- | -- | -- | -- | -- |
| Volatile Organic Compounds (VOCs) | | | | | | | | | |
| 1,1-Dichloroethane | 0.0 | 47 | 0.0 | 0.20 | 0.0 | -- | -- | -- | -- |
| 1,2-Dibromoethane (EDB) | 0.0 | 1400 | 0.0 | -- | -- | -- | -- | -- | -- |
| Acetone | 320 | 1500 | 0.21 | 20 | 16 | 122 | 2.6 | -- | -- |
| Acetonitrile | 0.0 | 76 | 0.0 | 116 | 0.0 | -- | -- | -- | -- |
| Carbon disulfide | 0.0 | 0.92 | 0.0 | 1.2 | 0.0 | -- | -- | -- | -- |
| Ethylene glycol | 4000 | 2000 | 2.0 | 3260 | 1.2 | 546000 | 0.0073 | -- | -- |
| Methyl isobutyl ketone (MIBK) | 490 | 170 | 2.9 | -- | -- | 410 | 1.2 | -- | -- |
| Methylene chloride | 0.0 | 2200 | 0.0 | 122 | 0.0 | -- | -- | -- | -- |
| Nonanal | 0.91 | -- | -- | -- | -- | -- | -- | -- | -- |
| Propanal | 0.0 | -- | -- | -- | -- | 7960 | 0.0 | -- | -- |
| Trichloroethylene | 0.0 | 360 | 0.0 | 450 | 0.0 | 317 | 0.0 | -- | -- |

Table U.A5-13
Risk Estimates for Aquatic Life, Amphibians, and Aquatic Plants in Exposure Unit Surface Water
Based on Maximum Concentrations

| CPEC | A Drainage | | | | | | | | | |
|--|-----------------------------|---|------------------|---|------------------|---|------------------|---|------------------|--|
| | Surface Water EPC (µg/L) | Selected Surface Water Screening ^a (µg/L) | HQ (unitless) | Selected Amphibian Screening Value ^a (µg/L) | HQ (unitless) | Selected Plant Screening Value ^a (µg/L) | HQ (unitless) | AWQC for Aquatic Life (acute/CMC) ^b (µg/L) | HQ (unitless) | |
| Inorganics | | | | | | | | | | |
| Antimony | 0.0 | 30 | 0.0 | 3.0 | 0.0 | 610 | 0.0 | -- | -- | |
| Arsenic | 1.8 | 150 | 0.012 | 0.40 | 4.5 | 48 | 0.038 | 340 | 0.00035 | |
| Barium | 23 | 4.0 | 5.8 | 2.3 | 10 | 15000000 | 0.0000015 | -- | -- | |
| Beryllium | 0.030 | 0.66 | 0.045 | 0.032 | 0.95 | 100000 | 0.0000030 | -- | -- | |
| Cadmium | 0.10 | 3.0 | 0.033 | 0.016 | 6.3 | 2.0 | 0.050 | 3.0 | 0.011 | |
| Chromium | 0.0 | 250 | 0.0 | 0.30 | 0.0 | 397 | 0.0 | 794 | 0.0 | |
| Cobalt | 0.0 | 23 | 0.0 | 0.50 | 0.0 | 60 | 0.0 | -- | -- | |
| Copper | 0.0 | 13 | 0.0 | 0.010 | 0.0 | 1.0 | 0.0 | 20 | 0.0 | |
| Lead | 0.15 | 3.9 | 0.038 | 0.40 | 0.38 | 500 | 0.00030 | 100 | 0.00038 | |
| Manganese | 0.0 | 120 | 0.0 | 0.50 | 0.0 | 4000 | 0.0 | -- | -- | |
| Mercury | 0.0 | 0.77 | 0.0 | 0.010 | 0.0 | 5.0 | 0.0 | 1.4 | 0.0 | |
| Molybdenum | 14 | 370 | 0.038 | 0.40 | 35 | 500 | 0.028 | -- | -- | |
| Nickel | 6.3 | 73 | 0.086 | 0.020 | 315 | 5.0 | 1.3 | 660 | 0.00013 | |
| Selenium | 1.0 | 5.0 | 0.20 | 0.90 | 1.1 | 100 | 0.010 | 290 | 0.00069 | |
| Silver | 0.0 | 0.36 | 0.0 | 0.041 | 0.0 | 30 | 0.0 | 6.5 | 0.0 | |
| Thallium | 0.0 | 12 | 0.0 | 0.10 | 0.0 | 100 | 0.0 | -- | -- | |
| Tin | No Data | 73 | -- | 0.020 | -- | 100000 | -- | -- | -- | |
| Vanadium | 0.0 | 20 | 0.0 | 0.030 | 0.0 | 200 | 0.0 | -- | -- | |
| Zinc | 3.8 | 170 | 0.022 | 0.047 | 81 | 30 | 0.13 | 165 | 0.00014 | |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | | | | | | |
| Benzo(a)anthracene | 0.0 | 0.027 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- | |
| Benzo(a)pyrene | 0.0 | 0.014 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- | |
| Benzo(b)fluoranthene | 0.0 | 0.029 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- | |
| Benzo(g,h,i)perylene | 0.0 | 0.10 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- | |
| Dibenz(a,h)anthracene | 0.0 | 7.5 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- | |
| Naphthalene | 0.030 | 12 | 0.0025 | 21 | 0.0014 | 33000 | 0.0000091 | -- | -- | |
| Total LMW PAH | 0.030 | 12 | 0.0025 | 21 | 0.0014 | 33000 | 0.0000091 | -- | -- | |
| Total HMW PAH | 0.0 | 0.014 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- | |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | | | | | | |
| Bis(2-chloroethyl)ether | 0.0 | 61 | 0.0 | -- | -- | -- | -- | -- | -- | |
| Bis(2-ethylhexyl)phthalate | 0.0 | 3.0 | 0.0 | 39 | 0.0 | 3200 | 0.0 | -- | -- | |
| N-Nitrosodiethylamine | 0.0 | -- | -- | -- | -- | -- | -- | -- | -- | |
| N-Nitrosodipropylamine | 0.050 | 210 | 0.00024 | -- | -- | -- | -- | -- | -- | |
| N-Nitrosopyrrolidine | 0.0 | -- | -- | -- | -- | -- | -- | -- | -- | |
| Volatile Organic Compounds (VOCs) | | | | | | | | | | |
| 1,1-Dichloroethane | 0.0 | 47 | 0.0 | 0.20 | 0.0 | -- | -- | -- | -- | |
| 1,2-Dibromoethane (EDB) | 0.0 | 1400 | 0.0 | -- | -- | -- | -- | -- | -- | |
| Acetone | 0.0 | 1500 | 0.0 | 20 | 0.0 | 122 | 0.0 | -- | -- | |
| Acetonitrile | 0.0 | 76 | 0.0 | 116 | 0.0 | -- | -- | -- | -- | |
| Carbon disulfide | 0.0 | 0.92 | 0.0 | 1.2 | 0.0 | -- | -- | -- | -- | |
| Ethylene glycol | 4100 | 2000 | 2.1 | 3260 | 1.3 | 546000 | 0.0075 | -- | -- | |
| Methyl isobutyl ketone (MIBK) | 0.0 | 170 | 0.0 | -- | -- | 410 | 0.0 | -- | -- | |
| Methylene chloride | 0.0 | 2200 | 0.0 | 122 | 0.0 | -- | -- | -- | -- | |
| Nonanal | 0.0 | -- | -- | -- | -- | -- | -- | -- | -- | |
| Propanal | 0.0 | -- | -- | -- | -- | 7960 | 0.0 | -- | -- | |
| Trichloroethylene | 0.0 | 360 | 0.0 | 450 | 0.0 | 317 | 0.0 | -- | -- | |

Table U.A5-13
Risk Estimates for Aquatic Life, Amphibians, and Aquatic Plants in Exposure Unit Surface Water
Based on Maximum Concentrations

| CPEC | Upper C Drainage | | | | | | | | AWQC for Aquatic Life (acute/CMC) ^b (µg/L) | HQ (unitless) |
|--|-----------------------------|---|------------------|---|------------------|---|------------------|-----|---|---------------|
| | Surface Water EPC (µg/L) | Selected Surface Water Screening ^a (µg/L) | HQ (unitless) | Selected Amphibian Screening Value ^a (µg/L) | HQ (unitless) | Selected Plant Screening Value ^a (µg/L) | HQ (unitless) | | | |
| Inorganics | | | | | | | | | | |
| Antimony | 0.0 | 30 | 0.0 | 3.0 | 0.0 | 610 | 0.0 | -- | -- | -- |
| Arsenic | 6.4 | 150 | 0.043 | 0.40 | 16 | 48 | 0.13 | 340 | 0.00013 | |
| Barium | 55 | 4.0 | 14 | 2.3 | 24 | 1500000 | 0.0000037 | -- | -- | |
| Beryllium | 0.050 | 0.66 | 0.076 | 0.032 | 1.6 | 100000 | 0.0000050 | -- | -- | |
| Cadmium | 0.15 | 3.0 | 0.050 | 0.016 | 9.5 | 2.0 | 0.075 | 3.0 | 0.017 | |
| Chromium | 2.1 | 250 | 0.0084 | 0.30 | 7.0 | 397 | 0.0053 | 794 | 0.000011 | |
| Cobalt | 0.90 | 23 | 0.039 | 0.50 | 1.8 | 60 | 0.015 | -- | -- | |
| Copper | 0.0 | 13 | 0.0 | 0.010 | 0.0 | 1.0 | 0.0 | 20 | 0.0 | |
| Lead | 0.32 | 3.9 | 0.082 | 0.40 | 0.80 | 500 | 0.00064 | 100 | 0.00082 | |
| Manganese | 23 | 120 | 0.19 | 0.50 | 46 | 4000 | 0.0058 | -- | -- | |
| Mercury | 0.0 | 0.77 | 0.0 | 0.010 | 0.0 | 5.0 | 0.0 | 1.4 | 0.0 | |
| Molybdenum | 22 | 370 | 0.059 | 0.40 | 55 | 500 | 0.044 | -- | -- | |
| Nickel | 18 | 73 | 0.25 | 0.020 | 900 | 5.0 | 3.6 | 660 | 0.00037 | |
| Selenium | 5.8 | 5.0 | 1.2 | 0.90 | 6.4 | 100 | 0.058 | 290 | 0.0040 | |
| Silver | 0.0 | 0.36 | 0.0 | 0.041 | 0.0 | 30 | 0.0 | 6.5 | 0.0 | |
| Thallium | 0.23 | 12 | 0.019 | 0.10 | 2.3 | 100 | 0.0023 | -- | -- | |
| Tin | No Data | 73 | -- | 0.020 | -- | 100000 | -- | -- | -- | |
| Vanadium | 40 | 20 | 2.0 | 0.030 | 1333 | 200 | 0.20 | -- | -- | |
| Zinc | 8.2 | 170 | 0.048 | 0.047 | 174 | 30 | 0.27 | 165 | 0.00029 | |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | | | | | | |
| Benzo(a)anthracene | 0.010 | 0.027 | 0.37 | 870 | 0.000011 | 850 | 0.000012 | -- | -- | |
| Benzo(a)pyrene | 0.0 | 0.014 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- | |
| Benzo(b)fluoranthene | 0.0 | 0.029 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- | |
| Benzo(g,h,i)perylene | 0.0 | 0.10 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- | |
| Dibenzo(a,h)anthracene | 0.0 | 7.5 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- | |
| Naphthalene | 0.0 | 12 | 0.0 | 21 | 0.0 | 33000 | 0.0 | -- | -- | |
| Total LMW PAH | 0.0 | 12 | 0.0 | 21 | 0.0 | 33000 | 0.0 | -- | -- | |
| Total HMW PAH | 0.010 | 0.014 | 0.71 | 870 | 0.000011 | 850 | 0.000012 | -- | -- | |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | | | | | | |
| Bis(2-chloroethyl)ether | 0.0 | 61 | 0.0 | -- | -- | -- | -- | -- | -- | |
| Bis(2-ethylhexyl)phthalate | 0.0 | 3.0 | 0.0 | 39 | 0.0 | 3200 | 0.0 | -- | -- | |
| N-Nitrosodiethylamine | 0.0 | -- | -- | -- | -- | -- | -- | -- | -- | |
| N-Nitrosodipropylamine | 0.068 | 210 | 0.00032 | -- | -- | -- | -- | -- | -- | |
| N-Nitrosopyrrolidine | 0.0 | -- | -- | -- | -- | -- | -- | -- | -- | |
| Volatile Organic Compounds (VOCs) | | | | | | | | | | |
| 1,1-Dichloroethane | 0.0 | 47 | 0.0 | 0.20 | 0.0 | -- | -- | -- | -- | |
| 1,2-Dibromoethane (EDB) | 0.0 | 1400 | 0.0 | -- | -- | -- | -- | -- | -- | |
| Acetone | 0.0 | 1500 | 0.0 | 20 | 0.0 | 122 | 0.0 | -- | -- | |
| Acetonitrile | 0.0 | 76 | 0.0 | 116 | 0.0 | -- | -- | -- | -- | |
| Carbon disulfide | 0.0 | 0.92 | 0.0 | 1.2 | 0.0 | -- | -- | -- | -- | |
| Ethylene glycol | 5300 | 2000 | 2.7 | 3260 | 1.6 | 546000 | 0.0097 | -- | -- | |
| Methyl isobutyl ketone (MIBK) | 0.0 | 170 | 0.0 | -- | -- | 410 | 0.0 | -- | -- | |
| Methylene chloride | 0.0 | 2200 | 0.0 | 122 | 0.0 | -- | -- | -- | -- | |
| Nonanal | 0.0 | -- | -- | -- | -- | -- | -- | -- | -- | |
| Propanal | 0.0 | -- | -- | -- | -- | 7960 | 0.0 | -- | -- | |
| Trichloroethylene | 0.0 | 360 | 0.0 | 450 | 0.0 | 317 | 0.0 | -- | -- | |

Table U.A5-13
Risk Estimates for Aquatic Life, Amphibians, and Aquatic Plants in Exposure Unit Surface Water
Based on Maximum Concentrations

| CPEC | Lower C Drainage | | | | | | | | | |
|--|-----------------------------|--|------------------|--|------------------|--|------------------|---|------------------|--|
| | Surface Water EPC (µg/L) | Selected Surface Water Screening ^a (µg/L) | HQ (unitless) | Selected Amphibian Screening Value ^a (µg/L) | HQ (unitless) | Selected Plant Screening Value ^a (µg/L) | HQ (unitless) | AWQC for Aquatic Life (acute/CM C) ^b (µg/L) | HQ (unitless) | |
| Inorganics | | | | | | | | | | |
| Antimony | 0.42 | 30 | 0.014 | 3.0 | 0.14 | 610 | 0.00069 | -- | -- | |
| Arsenic | 9.0 | 150 | 0.060 | 0.40 | 23 | 48 | 0.19 | 340 | 0.00018 | |
| Barium | 48 | 4.0 | 12 | 2.3 | 21 | 15000000 | 0.00000032 | -- | -- | |
| Beryllium | 0.020 | 0.66 | 0.030 | 0.032 | 0.63 | 100000 | 0.00000020 | -- | -- | |
| Cadmium | 0.18 | 3.0 | 0.060 | 0.016 | 11 | 2.0 | 0.090 | 3.0 | 0.020 | |
| Chromium | 1.8 | 250 | 0.0072 | 0.30 | 6.0 | 397 | 0.0045 | 794 | 0.0000091 | |
| Cobalt | 1.3 | 23 | 0.057 | 0.50 | 2.6 | 60 | 0.022 | -- | -- | |
| Copper | 1.0 | 13 | 0.077 | 0.010 | 100 | 1.0 | 1.0 | 20 | 0.0039 | |
| Lead | 0.58 | 3.9 | 0.15 | 0.40 | 1.5 | 500 | 0.0012 | 100 | 0.0015 | |
| Manganese | 140 | 120 | 1.2 | 0.50 | 280 | 4000 | 0.035 | -- | -- | |
| Mercury | 0.0 | 0.77 | 0.0 | 0.010 | 0.0 | 5.0 | 0.0 | 1.4 | 0.0 | |
| Molybdenum | 30 | 370 | 0.081 | 0.40 | 75 | 500 | 0.060 | -- | -- | |
| Nickel | 22 | 73 | 0.30 | 0.020 | 1100 | 5.0 | 4.4 | 660 | 0.00046 | |
| Selenium | 6.2 | 5.0 | 1.2 | 0.90 | 6.9 | 100 | 0.062 | 290 | 0.0043 | |
| Silver | 0.020 | 0.36 | 0.056 | 0.041 | 0.49 | 30 | 0.0067 | 6.5 | 0.0086 | |
| Thallium | 0.31 | 12 | 0.026 | 0.10 | 3.1 | 100 | 0.0031 | -- | -- | |
| Tin | No Data | 73 | -- | 0.020 | -- | 100000 | -- | -- | -- | |
| Vanadium | 40 | 20 | 2.0 | 0.030 | 1333 | 200 | 0.20 | -- | -- | |
| Zinc | 7.6 | 170 | 0.045 | 0.047 | 162 | 30 | 0.25 | 165 | 0.00027 | |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | | | | | | |
| Benzo(a)anthracene | 0.011 | 0.027 | 0.41 | 870 | 0.000013 | 850 | 0.000013 | -- | -- | |
| Benzo(a)pyrene | 0.0 | 0.014 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- | |
| Benzo(b)fluoranthene | 0.0 | 0.029 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- | |
| Benzo(g,h,i)perylene | 0.0 | 0.10 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- | |
| Dibenz(a,h)anthracene | 0.0 | 7.5 | 0.0 | 870 | 0.0 | 850 | 0.0 | -- | -- | |
| Naphthalene | 0.0 | 12 | 0.0 | 21 | 0.0 | 33000 | 0.0 | -- | -- | |
| Total LMW PAH | 0.0 | 12 | 0.0 | 21 | 0.0 | 33000 | 0.0 | -- | -- | |
| Total HMW PAH | 0.011 | 0.014 | 0.79 | 870 | 0.000013 | 850 | 0.000013 | -- | -- | |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | | | | | | |
| Bis(2-chloroethyl)ether | 0.016 | 61 | 0.00026 | -- | -- | -- | -- | -- | -- | |
| Bis(2-ethylhexyl)phthalate | 1.3 | 3.0 | 0.43 | 39 | 0.034 | 3200 | 0.00041 | -- | -- | |
| N-Nitrosodiethylamine | 0.0 | -- | -- | -- | -- | -- | -- | -- | -- | |
| N-Nitrosodipropylamine | 0.10 | 210 | 0.00048 | -- | -- | -- | -- | -- | -- | |
| N-Nitrosopyrrolidine | 0.0 | -- | -- | -- | -- | -- | -- | -- | -- | |
| Volatile Organic Compounds (VOCs) | | | | | | | | | | |
| 1,1-Dichloroethane | 0.0 | 47 | 0.0 | 0.20 | 0.0 | -- | -- | -- | -- | |
| 1,2-Dibromoethane (EDB) | 0.0 | 1400 | 0.0 | -- | -- | -- | -- | -- | -- | |
| Acetone | 1100 | 1500 | 0.73 | 20 | 56 | 122 | 9.0 | -- | -- | |
| Acetonitrile | 3700 | 76 | 49 | 116 | 32 | -- | -- | -- | -- | |
| Carbon disulfide | 0.59 | 0.92 | 0.64 | 1.2 | 0.49 | -- | -- | -- | -- | |
| Ethylene glycol | 6400 | 2000 | 3.2 | 3260 | 2.0 | 546000 | 0.012 | -- | -- | |
| Methyl isobutyl ketone (MIBK) | 0.0 | 170 | 0.0 | -- | -- | 410 | 0.0 | -- | -- | |
| Methylene chloride | 0.0 | 2200 | 0.0 | 122 | 0.0 | -- | -- | -- | -- | |
| Nonanal | 0.0 | -- | -- | -- | -- | -- | -- | -- | -- | |
| Propanal | 0.0 | -- | -- | -- | -- | 7960 | 0.0 | -- | -- | |
| Trichloroethylene | 0.0 | 360 | 0.0 | 450 | 0.0 | 317 | 0.0 | -- | -- | |

Table U.A5-13
Risk Estimates for Aquatic Life, Amphibians, and Aquatic Plants in Exposure Unit Surface Water
Based on Maximum Concentrations

CPEC = Chemical of Potential Ecological Concern.

HQ = Hazard Quotient (unitless).

Total LMW PAH = Sum of the LMW PAHs.

Total HMW PAH = Sum of the HMW PAHs.

Total DDT = Sum of DDD, DDE, DDT.

NA = Not Applicable.

Max = Maximum detected concentration.

No Data = CPEC was not analyzed in the sample

"--" = in screening value column, compound not a CPEC in the matrix, or screening value not available. In HQ column, HQ not calculated.

An EPC value of 0.0 indicates CPEC was not detected, or compound was not a CPEC in the matrix.

ug/L = micrograms per liter

HQ > 1

^c From Table U5-3 of the ERA (Appendix U) and Attachment 2.

Table U.A5-14a
Sitewide (with Ponds A-5 and 18) Terrestrial Areas and Pondwide Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| Sitewide CPEC | Soil (mg/kg, dw) | | Sediment ^b | Surface Water | Plants | Terrestrial Invertebrates | Aquatic Invertebrates | Small Mammals (Invertivore) | Small Mammals (Herbivore) |
|--|------------------|--------------|-----------------------|---------------|-------------|---------------------------|-----------------------|-----------------------------|---------------------------|
| | (0-0.5 ft bgs) | (0-5 ft bgs) | (mg/kg, dw) | mg/l | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) |
| Inorganics^a | | | | | | | | | |
| Antimony | 0.0 | 0.0 | 0.0 | 0.0048 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Arsenic | 0.0 | 0.0 | 0.0 | 0.33 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Barium | 12000 | 12000 | 4400 | 0.056 | 1872 | 1092 | 5218 | 8.2 | 14 |
| Beryllium | 0.84 | 1.0 | 0.0 | 0.0014 | 0.59 | 0.038 | 0.0 | 0.0019 | 0.029 |
| Cadmium | 34 | 34 | 26 | 0.0035 | 4.3 | 137 | 80 | 1.5 | 1.5 |
| Chromium | 670 | 670 | 76 | 0.089 | 27 | 205 | 36 | 28 | 28 |
| Cobalt | 160 | 160 | 0.0 | 0.0 | 1.2 | 20 | 0.0 | 8.7 | 8.7 |
| Copper | 480 | 480 | 56 | 0.031 | 22 | 247 | 38 | 19 | 19 |
| Total Cyanide | 9.8 | 9.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Lead | 970 | 970 | 12 | 0.00034 | 13 | 207 | 0.79 | 23 | 23 |
| Manganese | 1500 | 5000 | 430 | 2.7 | 395 | 65 | 510 | 31 | 31 |
| Mercury | 0.43 | 0.43 | 0.050 | 0.00016 | 0.24 | 0.70 | 0.057 | 0.023 | 0.023 |
| Molybdenum | 15 | 15 | 21 | 0.056 | 66 | 2.5 | 25 | 0.76 | 20 |
| Nickel | 240 | 240 | 180 | 0.55 | 6.5 | -- | 13 | 10 | 10 |
| Selenium | 15 | 15 | 15 | 1.6 | 10 | 6.8 | 18 | 1.8 | 1.8 |
| Silver | 0.0 | 0.0 | 0.0 | 0.00057 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Thallium | 2.1 | 2.8 | 0.67 | 0.0020 | 0.011 | 0.54 | 0.79 | 0.24 | 0.24 |
| Tin | 77 | 77 | 69 | 0.0013 | 15 | 13 | 82 | 0.65 | 4.6 |
| Vanadium | 51 | 140 | 0.0 | 0.12 | 0.68 | 2.1 | 0.0 | 0.63 | 0.63 |
| Zinc | 710 | 710 | 112 | 0.069 | 183 | 737 | 141 | 125 | 125 |
| Dioxins/Furans | | | | | | | | | |
| Total Avian Dioxin TEQ | 7.82E-05 | 7.82E-05 | 1.07E-06 | 7.24E-12 | 4.38E-07 | 4.79E-04 | 2.99E-06 | 6.89E-05 | 6.89E-05 |
| Total Mammalian Dioxin TEQ | 5.75E-05 | 5.75E-05 | 1.50E-06 | 2.17E-11 | 3.22E-07 | 3.33E-04 | 4.19E-06 | 4.91E-05 | 4.91E-05 |
| Total Avian TEQ | No Data | No Data | No Data | No Data | 0.0 | No Data | No Data | No Data | No Data |
| Total Mammalian TEQ | No Data | No Data | No Data | No Data | 0.0 | No Data | No Data | No Data | No Data |
| Herbicides | | | | | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.084 | 0.10 | 0.10 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Dalapon | 0.28 | 0.28 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Dichlorprop | 0.0 | 0.0 | 0.020 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MCPA | 7.0 | 19 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MCPP | 1400 | 1400 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

CSC

January 2011

Draft Wildlife Risk Tables_103007_max_f.jmc_Final RIR_v01.xls

Appendix U Attachment 5
Final Remedial Investigation Report

Table U.A5-14a
Sitewide (with Ponds A-5 and 18) Terrestrial Areas and Pondwide Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| Sitewide CPEC | Soil (mg/kg, dw) | | Sediment ^b | Surface Water | Plants | Terrestrial Invertebrates | Aquatic Invertebrates | Small Mammals (Invertivore) | Small Mammals (Herbivore) |
|--|------------------|--------------|-----------------------|---------------|-------------|---------------------------|-----------------------|-----------------------------|---------------------------|
| | (0-0.5 ft bgs) | (0-5 ft bgs) | (mg/kg, dw) | mg/l | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | | | | | |
| 2-Methylnaphthalene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Acenaphthene | 0.71 | 0.71 | 0.0 | 0.0 | 0.0051 | 1.0 | 0.0 | 0.0 | 0.0 |
| Anthracene | 0.33 | 0.33 | 0.0 | 0.0 | 0.16 | 0.80 | 0.0 | 0.0 | 0.0 |
| Benzo(a)anthracene | 0.19 | 0.19 | 0.0 | 0.000010 | 0.025 | 0.30 | 0.0 | 0.0 | 0.0 |
| Benzo(a)pyrene | 0.51 | 0.51 | 0.0 | 0.000013 | 0.066 | 0.68 | 0.0 | 0.0 | 0.0 |
| Benzo(b)fluoranthene | 0.057 | 0.32 | 0.0 | 0.0 | 0.099 | 0.15 | 0.0 | 0.0 | 0.0 |
| Benzo(g,h,i)perylene | 0.21 | 0.21 | 0.0 | 0.0 | 0.062 | 0.62 | 0.0 | 0.0 | 0.0 |
| Benzo(k)fluoranthene | 0.55 | 0.55 | 0.0 | 0.0 | 0.069 | 1.4 | 0.0 | 0.0 | 0.0 |
| Chrysene | 0.95 | 0.95 | 0.011 | 0.0 | 0.065 | 2.2 | 0.0080 | 0.0 | 0.0 |
| Dibeno(a,h)anthracene | 0.0 | 0.0 | 0.0 | 0.000013 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fluoranthene | 0.57 | 0.57 | 0.0 | 0.0 | 0.29 | 1.7 | 0.0 | 0.0 | 0.0 |
| Fluorene | 2.2 | 2.2 | 0.0027 | 0.0 | 0.0020 | 21 | 0.0013 | 0.0 | 0.0 |
| Indeno(1,2,3-c,d)pyrene | 0.045 | 0.045 | 0.0 | 0.0 | 0.0050 | 0.13 | 0.0 | 0.0 | 0.0 |
| Naphthalene | 1.2 | 1.2 | 0.017 | 0.000016 | 15 | 5.3 | 0.0064 | 0.0 | 0.0 |
| Phenanthrene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Pyrene | 0.78 | 0.78 | 0.017 | 0.0 | 0.56 | 1.4 | 0.061 | 0.0 | 0.0 |
| Total LMW PAH | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |
| Total HMW PAH | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |
| Polychlorinated Biphenyls (PCBs) | | | | | | | | | |
| Aroclor 1260 | 3.7 | 8.0 | 0.099 | 0.0 | 0.036 | 24 | 1.2 | 0.61 | 0.00091 |
| Sum of PCB Congeners | 2.1 | 2.1 | 0.16 | 0.0 | 0.0094 | 11 | 2.0 | 0.28 | 0.00024 |
| Total Avian PCB TEQ | 3.70E-03 | 3.70E-03 | 1.09E-04 | 0.00E+00 | 1.68E-05 | 2.01E-03 | 1.32E-03 | 5.02E-05 | 4.21E-07 |
| Total Mammalian PCB TEQ | 3.21E-04 | 3.21E-04 | 1.16E-05 | 0.00E+00 | 1.46E-06 | 7.22E-05 | 1.41E-04 | 1.80E-06 | 3.65E-08 |
| Pesticides | | | | | | | | | |
| 4,4'-DDD | 0.0 | 0.0 | 0.012 | 0.0 | 0.0 | 0.0 | 0.083 | 0.0 | 0.0 |
| 4,4'-DDE | 0.031 | 0.031 | 0.0 | 0.0 | 0.0059 | 0.56 | 0.0 | 26 | 1.4 |
| 4,4'-DDT | 3.1 | 3.1 | 0.0081 | 0.0 | 0.19 | 22 | 0.041 | 31 | 0.97 |
| Total DDT | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data | No Data |
| Chlordane, alpha | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Endosulfan I | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Endosulfan II | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Endosulfan sulfate | 0.0 | 0.0 | 0.0089 | 0.0 | 0.0 | 0.0 | 0.034 | 0.0 | 0.0 |
| Endrin | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Heptachlor | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Hexachlorobenzene | 3.1 | 3.1 | 0.00095 | 0.0 | 1.3 | 57 | 0.018 | 69 | 1.6 |
| Kepone | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methoxychlor | 0.059 | 0.14 | 0.0 | 0.0 | 0.092 | 0.073 | 0.0 | 0.088 | 0.11 |

Table U.A5-14a
Sitewide (with Ponds A-5 and 18) Terrestrial Areas and Pondwide Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| Sitewide CPEC | Soil (mg/kg, dw) | | Sediment ^b | Surface Water | Plants | Terrestrial Invertebrates | Aquatic Invertebrates | Small Mammals (Invertivore) | Small Mammals (Herbivore) |
|---|------------------|--------------|-----------------------|---------------|-------------|---------------------------|-----------------------|-----------------------------|---------------------------|
| | (0-0.5 ft bgs) | (0-5 ft bgs) | (mg/kg, dw) | mg/l | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | | | | | |
| Bis(2-chloroethyl)ether | 0.0 | 0.0 | 0.0 | 0.000020 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bis(2-ethylhexyl)phthalate | 29 | 29 | 0.0 | 0.051 | 0.0 | 58 | 0.0 | 0.0 | 0.0 |
| Diethylphthalate | 20 | 20 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| N-Nitrosodiethylamine | 0.0 | 0.0 | 0.0 | 0.00019 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| N-Nitrosodipropylamine | 0.0 | 0.0 | 0.0 | 0.00049 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| N-Nitrosopyrrolidine | 0.0 | 0.0 | 0.0 | 0.0015 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Volatile Organic Compounds (VOCs) | | | | | | | | | |
| 1,1,1-Trichloroethane | 1.5 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,1-Dichloroethane | 0.46 | 4.3 | 0.052 | 0.0013 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,1-Dichloroethylene | 0.019 | 0.35 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,2-Dibromoethane (EDB) | 0.0 | 0.0 | 0.0 | 0.000012 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,2-Dichloroethene | 0.11 | 17 | 0.0058 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Acetone | 1.1 | 1.1 | 0.065 | 0.018 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Acetonitrile | 0.19 | 0.19 | 0.0 | No Data | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Acrolein | 0.017 | 0.017 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzene | 0.027 | 0.95 | 0.027 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Carbon disulfide | 0.10 | 0.11 | 0.15 | 0.00043 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Diisopropyl ether | 0.0 | 0.0 | 0.0040 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ethylbenzene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ethylene glycol | 0.0 | 0.0 | 0.0 | No Data | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.62 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Isopropanol | 0.087 | 0.087 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methyl ethyl ketone | 0.36 | 0.36 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methyl isobutyl ketone (MIBK) | 0.0 | 0.0 | 0.0 | No Data | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methylcyclopentane | 0.0 | 0.0 | 0.28 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methylene chloride | 0.26 | 0.43 | 0.014 | 0.0070 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Nonanal | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Propanal | 1.3 | 1.3 | 0.0 | 0.014 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tert-Butyl alcohol (TBA) | 0.040 | 0.060 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tetrachloroethylene | 3.4 | 560 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tetrahydrofuran | 0.0081 | 0.18 | 0.0042 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Toluene | 0.0050 | 0.32 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Trichloroethylene | 24 | 42 | 0.0 | 0.0013 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table U.A5-14b
Sitewide (without Ponds) Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Soil (mg/kg, dw) | | Plants | Terrestrial Invertebrates | Small Mammals (Invertivore) | Small Mammals (Herbivore) |
|--|------------------|--------------|-------------|---------------------------|-----------------------------|---------------------------|
| | (0-0.5 ft bgs) | (0-5 ft bgs) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) |
| Inorganics^a | | | | | | |
| Barium | 12000 | 12000 | 1872 | 1092 | 8.2 | 14 |
| Beryllium | 0.84 | 1.0 | 0.59 | 0.038 | 0.0019 | 0.029 |
| Cadmium | 34 | 34 | 4.3 | 137 | 1.5 | 1.5 |
| Chromium | 670 | 670 | 27 | 205 | 28 | 28 |
| Cobalt | 160 | 160 | 1.2 | 20 | 8.7 | 8.7 |
| Copper | 480 | 480 | 22 | 247 | 19 | 19 |
| Total Cyanide | 9.8 | 9.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| Lead | 970 | 970 | 47 | 207 | 23 | 23 |
| Manganese | 1500 | 5000 | 395 | 65 | 31 | 31 |
| Mercury | 0.43 | 0.43 | 0.24 | 0.70 | 0.023 | 0.023 |
| Molybdenum | 11 | 15 | 66 | 1.8 | 0.55 | 20 |
| Nickel | 240 | 240 | 6.5 | -- | 10 | 10 |
| Selenium | 11 | 11 | 7.2 | 5.4 | 1.6 | 1.6 |
| Thallium | 2.1 | 2.8 | 0.011 | 0.54 | 0.24 | 0.24 |
| Tin | 77 | 77 | 15 | 13 | 0.65 | 4.6 |
| Vanadium | 51 | 140 | 0.68 | 2.1 | 0.63 | 0.63 |
| Zinc | 710 | 710 | 183 | 737 | 125 | 125 |
| Dioxins/Furans | | | | | | |
| Total Avian Dioxin TEQ | 7.82E-05 | 7.82E-05 | 4.38E-07 | 4.79E-04 | 6.89E-05 | 6.89E-05 |
| Total Mammalian Dioxin TEQ | 5.75E-05 | 5.75E-05 | 3.22E-07 | 3.33E-04 | 4.91E-05 | 4.91E-05 |
| Total Avian TEQ | No Data | No Data | No Data | No Data | No Data | No Data |
| Total Mammalian TEQ | No Data | No Data | No Data | No Data | No Data | No Data |
| Herbicides | | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.084 | 0.10 | 0.0 | 0.0 | 0.0 | 0.0 |
| Dalapon | 0.28 | 0.28 | 0.0 | 0.0 | 0.0 | 0.0 |
| MCPPA | 7.0 | 19 | 0.0 | 0.0 | 0.0 | 0.0 |
| MCPP | 1400 | 1400 | 0.0 | 0.0 | 0.0 | 0.0 |

Table U.A5-14b
Sitewide (without Ponds) Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Soil (mg/kg, dw) | | Plants | Terrestrial Invertebrates | Small Mammals (Invertivore) | Small Mammals (Herbivore) |
|--|------------------|--------------|-------------|---------------------------|-----------------------------|---------------------------|
| | (0-0.5 ft bgs) | (0-5 ft bgs) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | | |
| Acenaphthene | 0.71 | 0.71 | 0.0051 | 1.0 | 0.0 | 0.0 |
| Anthracene | 0.33 | 0.33 | 0.16 | 0.80 | 0.0 | 0.0 |
| Benzo(a)anthracene | 0.19 | 0.19 | 0.025 | 0.30 | 0.0 | 0.0 |
| Benzo(a)pyrene | 0.51 | 0.51 | 0.066 | 0.68 | 0.0 | 0.0 |
| Benzo(b)fluoranthene | 0.057 | 0.32 | 0.099 | 0.15 | 0.0 | 0.0 |
| Benzo(g,h,i)perylene | 0.21 | 0.21 | 0.062 | 0.62 | 0.0 | 0.0 |
| Benzo(k)fluoranthene | 0.55 | 0.55 | 0.069 | 1.4 | 0.0 | 0.0 |
| Chrysene | 0.95 | 0.95 | 0.065 | 2.2 | 0.0 | 0.0 |
| Fluoranthene | 0.57 | 0.57 | 0.29 | 1.7 | 0.0 | 0.0 |
| Fluorene | 2.2 | 2.2 | 0.0020 | 21 | 0.0 | 0.0 |
| Indeno(1,2,3-c,d)pyrene | 0.045 | 0.045 | 0.0050 | 0.13 | 0.0 | 0.0 |
| Naphthalene | 1.2 | 1.2 | 15 | 5.3 | 0.0 | 0.0 |
| Pyrene | 0.78 | 0.78 | 0.56 | 1.4 | 0.0 | 0.0 |
| Total LMW PAH | No Data | No Data | No Data | No Data | No Data | No Data |
| Total HMW PAH | No Data | No Data | No Data | No Data | No Data | No Data |
| Polychlorinated Biphenyls (PCBs) | | | | | | |
| Aroclor 1260 | 3.7 | 8.0 | 0.036 | 24 | 0.61 | 0.00091 |
| Sum of PCB Congeners | 2.1 | 2.1 | 0.0094 | 11 | 0.28 | 0.00024 |
| Total Avian PCB TEQ | 3.70E-03 | 3.70E-03 | 1.68E-05 | 2.01E-03 | 5.02E-05 | 4.21E-07 |
| Total Mammalian PCB TEQ | 3.21E-04 | 3.21E-04 | 1.46E-06 | 7.22E-05 | 1.80E-06 | 3.65E-08 |
| Pesticides | | | | | | |
| 4,4'-DDE | 0.031 | 0.031 | 0.0059 | 0.56 | 26 | 1.4 |
| 4,4'-DDT | 3.1 | 3.1 | 0.19 | 22 | 31 | 0.97 |
| Total DDT | No Data | No Data | No Data | No Data | No Data | No Data |

CSC

January 2011

Draft Wildlife Risk Tables_103007_max_f,jmc_Final RIR_v01.xls

Appendix U Attachment 5
Final Remedial Investigation Report

Table U.A5-14b
Sitewide (without Ponds) Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Soil (mg/kg, dw) | | Plants | Terrestrial Invertebrates | Small Mammals (Invertivore) | Small Mammals (Herbivore) |
|---|------------------|--------------|-------------|---------------------------|-----------------------------|---------------------------|
| | (0-0.5 ft bgs) | (0-5 ft bgs) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) |
| Hexachlorobenzene | 3.1 | 3.1 | 1.3 | 57 | 69 | 1.6 |
| Methoxychlor | 0.059 | 0.14 | 0.092 | 0.073 | 0.088 | 0.11 |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | | |
| Bis(2-ethylhexyl)phthalate | 29 | 29 | 0.0 | 58 | 0.0 | 0.0 |
| Diethylphthalate | 20 | 20 | 0.0 | 0.0 | 0.0 | 0.0 |
| Volatile Organic Compounds (VOCs) | | | | | | |
| 1,1,1-Trichloroethane | 1.5 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,1-Dichloroethane | 0.46 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,1-Dichloroethylene | 0.019 | 0.35 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,2-Dichloroethene | 0.11 | 17 | 0.0 | 0.0 | 0.0 | 0.0 |
| Acetone | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Acetonitrile | 0.19 | 0.19 | 0.0 | 0.0 | 0.0 | 0.0 |
| Acrolein | 0.017 | 0.017 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzene | 0.0051 | 0.95 | 0.0 | 0.0 | 0.0 | 0.0 |
| Carbon disulfide | 0.10 | 0.11 | 0.0 | 0.0 | 0.0 | 0.0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.62 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Isopropanol | 0.087 | 0.087 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methyl ethyl ketone | 0.36 | 0.36 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methylene chloride | 0.26 | 0.43 | 0.0 | 0.0 | 0.0 | 0.0 |
| Propanal | 1.3 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tert-Butyl alcohol (TBA) | 0.040 | 0.060 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tetrachloroethylene | 3.4 | 560 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tetrahydrofuran | 0.0081 | 0.18 | 0.0 | 0.0 | 0.0 | 0.0 |
| Toluene | 0.0050 | 0.32 | 0.0 | 0.0 | 0.0 | 0.0 |
| Trichloroethylene | 24 | 42 | 0.0 | 0.0 | 0.0 | 0.0 |

Table U.A5-14
Sitewide (without Ponds) Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC = Constituent of Potential Ecological Concern

EPC = Exposure Point Concentration

ft bgs = feet below ground surface

HMW = High Molecular Weight

LMW = Low Molecular Weight

NA = Not Applicable

No Data = CPEC was not analyzed in the sample

PCB = Polychlorinated Biphenyl

TEQ = Toxic Equivalent; Total TEQ = Total PCB TEQ + Total Dioxin TEQ

-- = No Bioaccumulation Factor; EPC not calculated.

mg/kg, dw = milligrams per kilogram, dry weight

mg/L = milligrams per liter

An EPC value of 0.0 indicates:

- a.) CPEC was not detected in the onsite media. Offsite detections resulted in inclusion of the compound if the frequency of detection was >5%.
- b.) Compound was not a CPEC in the matrix.

^a Surface water values for metals are total concentrations.

^bSediment is surface values (0-0.5 ft. bgs)

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | RCRA Canyon | | | | | |
|--|------------------------------------|-------------------------------|------------------|--|------------------------------|-------------|
| | Soil (mg/kg, dw) (0-0.5 ft bgs) | Surface Water (0-5 ft bgs) | Plants (mg/L) | Terrestrial Invertebrates (mg/kg, dw) | Small Mammals (mg/kg, dw) | |
| Inorganics^a | | | | | | |
| Barium | 12000 | 12000 | 0.19 | 1872 | 1092 | 14 |
| Beryllium | 0.74 | 0.79 | 0.00019 | 0.49 | 0.033 | 0.025 |
| Cadmium | 24 | 24 | 0.0047 | 3.5 | 104 | 1.3 |
| Chromium | 470 | 470 | 0.026 | 19 | 144 | 21 |
| Cobalt | 40 | 160 | 0.0 | 1.2 | 4.9 | 1.4 |
| Copper | 320 | 320 | 0.044 | 19 | 165 | 18 |
| Total Cyanide | No Data | No Data | 0.0 | No Data | No Data | No Data |
| Lead | 140 | 140 | 0.0017 | 4.2 | 43 | 9.6 |
| Manganese | 1500 | 5000 | 0.16 | 395 | 65 | 31 |
| Mercury | 0.39 | 0.39 | 0.00014 | 0.23 | 0.67 | 0.021 |
| Molybdenum | 4.8 | 15 | 0.086 | 66 | 0.81 | 20 |
| Nickel | 170 | 170 | 0.16 | 5.0 | -- | 8.6 |
| Selenium | 5.6 | 5.6 | 0.74 | 3.4 | 3.3 | 1.3 |
| Thallium | 0.64 | 1.0 | 0.00014 | 0.0040 | 0.16 | 0.072 |
| Tin | 77 | 77 | 0.00033 | 15 | 13 | 0.77 |
| Vanadium | 46 | 46 | 0.070 | 0.22 | 1.9 | 0.57 |
| Zinc | 710 | 710 | 0.034 | 183 | 737 | 125 |
| Dioxins/Furans | | | | | | |
| Total Avian Dioxin TEQ | 0.000013 | 0.000013 | 0.000000000011 | 0.000000075 | 0.000060 | 0.0000099 |
| Total Mammalian Dioxin TEQ | 0.0000060 | 0.0000060 | 0.000000000062 | 0.000000033 | 0.000023 | 0.0000041 |
| Total Avian TEQ | No Data | No Data | 0.0 | No Data | No Data | No Data |
| Total Mammalian TEQ | No Data | No Data | 0.0 | No Data | No Data | No Data |
| Herbicides | | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | No Data | No Data | 0.0 | No Data | No Data | No Data |
| Dalapon | No Data | No Data | 0.0 | No Data | No Data | No Data |
| MCPA | No Data | No Data | 0.0 | No Data | No Data | No Data |
| CPP | No Data | No Data | 0.0 | No Data | No Data | No Data |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | | |
| Acenaphthene | 0.0 | 0.079 | 0.0 | 0.034 | 0.0 | 0.0 |
| Anthracene | 0.013 | 0.013 | 0.0 | 0.013 | 0.031 | 0.0 |
| Benzo(a)anthracene | 0.0 | 0.010 | 0.0 | 0.0043 | 0.0 | 0.0 |
| Benzo(a)pyrene | 0.067 | 0.067 | 0.0 | 0.0091 | 0.089 | 0.0 |
| Benzo(b)fluoranthene | 0.0044 | 0.012 | 0.000054 | 0.0037 | 0.011 | 0.0 |
| Benzo(g,h,i)perylene | 0.043 | 0.043 | 0.0 | 0.0095 | 0.13 | 0.0 |
| Benzo(k)fluoranthene | 0.0094 | 0.0094 | 0.0 | 0.0021 | 0.024 | 0.0 |
| Chrysene | 0.017 | 0.034 | 0.0 | 0.0089 | 0.039 | 0.0 |
| Fluoranthene | 0.0024 | 0.014 | 0.0 | 0.0070 | 0.0073 | 0.0 |
| Fluorene | 0.0 | 0.10 | 0.0 | 0.028 | 0.0 | 0.0 |
| Indeno(1,2,3-c,d)pyrene | 0.0054 | 0.010 | 0.0 | 0.0011 | 0.015 | 0.0 |
| Naphthalene | 0.015 | 0.017 | 0.0 | 0.21 | 0.066 | 0.0 |
| Pyrene | 0.083 | 0.083 | 0.0 | 0.060 | 0.15 | 0.0 |
| Total LMW PAH | No Data | No Data | 0.0 | No Data | No Data | No Data |
| Total HMW PAH | No Data | No Data | 0.0 | No Data | No Data | No Data |
| Polychlorinated Biphenyls (PCBs) | | | | | | |
| Aroclor 1260 | 0.096 | 0.096 | 0.0 | 0.00044 | 0.17 | 0.0042 |
| Sum of PCB Congeners | 0.012 | 0.012 | 0.0 | 0.000054 | 0.0098 | 0.00024 |
| Total Avian PCB TEQ | 0.0000089 | 0.0000089 | 0.0 | 0.000000041 | 0.00000055 | 0.000000014 |
| Total Mammalian PCB TEQ | 0.0000026 | 0.0000026 | 0.0 | 0.00000012 | 0.00000011 | 0.000000026 |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | RCRA Canyon | | | | | |
|---|------------------------------------|-------------------------------|------------------|--|------------------------------|---------|
| | Soil (mg/kg, dw) (0-0.5 ft bgs) | Surface Water (0-5 ft bgs) | Plants (mg/L) | Terrestrial Invertebrates (mg/kg, dw) | Small Mammals (mg/kg, dw) | |
| Pesticides | | | | | | |
| 4,4'-DDE | 0.0047 | 0.0047 | 0.0 | 0.0014 | 0.11 | 9.1 |
| 4,4'-DDT | 0.0061 | 0.0061 | 0.0 | 0.0017 | 0.10 | 0.61 |
| Hexachlorobenzene | 0.0025 | 0.0025 | 0.0 | 0.0011 | 0.046 | 0.055 |
| Methoxychlor | 0.0071 | 0.0071 | 0.0 | 0.0047 | 0.0088 | 0.011 |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | | |
| Bis(2-ethylhexyl)phthalate | 0.34 | 0.34 | 0.0 | 0.0 | 0.68 | 0.0 |
| Diethylphthalate | 0.21 | 0.91 | 0.0 | 0.0 | 0.0 | 0.0 |
| Volatile Organic Compounds (VOCs) | | | | | | |
| 1,1,1-Trichloroethane | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,1-Dichloroethane | 0.0 | 0.0019 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,1-Dichloroethylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,2-Dichloroethene | 0.0 | 0.0020 | 0.0 | 0.0 | 0.0 | 0.0 |
| Acetone | No Data | No Data | 0.0 | No Data | No Data | No Data |
| Acetonitrile | No Data | No Data | 0.0 | No Data | No Data | No Data |
| Acrolein | No Data | No Data | 0.0 | No Data | No Data | No Data |
| Benzene | 0.0018 | 0.0018 | 0.0 | 0.0 | 0.0 | 0.0 |
| Carbon disulfide | 0.039 | 0.11 | 0.0 | 0.0 | 0.0 | 0.0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Isopropanol | No Data | No Data | 0.0 | No Data | No Data | No Data |
| Methyl ethyl ketone | No Data | No Data | 0.0 | No Data | No Data | No Data |
| Methylene chloride | 0.0016 | 0.0019 | 0.0 | 0.0 | 0.0 | 0.0 |
| Propanal | 0.071 | 0.071 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tert-Butyl alcohol (TBA) | No Data | No Data | 0.0 | No Data | No Data | No Data |
| Tetrachloroethylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tetrahydrofuran | 0.0057 | 0.0057 | 0.0 | 0.0 | 0.0 | 0.0 |
| Toluene | 0.0 | 0.0026 | 0.0 | 0.0 | 0.0 | 0.0 |
| Trichloroethylene | 0.0 | 0.013 | 0.0 | 0.0 | 0.0 | 0.0 |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | RCRA Canyon | | | | | |
|--|------------------------------------|-------------------------------|------------------|--|------------------------------|--------|
| | Soil (mg/kg, dw) (0-0.5 ft bgs) | Surface Water (0-5 ft bgs) | Plants (mg/L) | Terrestrial Invertebrates (mg/kg, dw) | Small Mammals (mg/kg, dw) | |
| Exposure Unit CPEC | | | | | | |
| Herbicides | | | | | | |
| 2,4,5-TP (Silvex) | NAC | NAC | NAC | NAC | NAC | NAC |
| 2-sec-Butyl-4,6-dinitrophenol (Dinoseb) | NAC | NAC | NAC | NAC | NAC | NAC |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | | |
| Acenaphthylene | NAC | NAC | NAC | NAC | NAC | NAC |
| Pesticides | | | | | | |
| 4,4'-DDD | NAC | NAC | NAC | NAC | NAC | NAC |
| Aldrin | NAC | NAC | NAC | NAC | NAC | NAC |
| alpha-BHC | NAC | NAC | NAC | NAC | NAC | NAC |
| Chlordane, gamma | NAC | NAC | NAC | NAC | NAC | NAC |
| delta-BHC | NAC | NAC | NAC | NAC | NAC | NAC |
| Dieldrin | 0.0037 | 0.0037 | 0.0 | 0.0032 | 0.054 | 0.065 |
| Endosulfan I | 0.0030 | 0.0030 | 0.0 | 0.0051 | 0.0064 | 0.0076 |
| Endrin | NAC | NAC | NAC | NAC | NAC | NAC |
| Heptachlor epoxide | NAC | NAC | NAC | NAC | NAC | NAC |
| Mirex | NAC | NAC | NAC | NAC | NAC | NAC |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | | |
| Benzoic Acid | NAC | NAC | NAC | NAC | NAC | NAC |
| Di-n-butylphthalate | 0.43 | 0.43 | 0.0 | 0.0 | 5.5 | 0.0 |
| N-Nitrosodimethylamine | NAC | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosodipropylamine | NAC | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosomethylbenzylamine | NAC | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosopyrrolidine | NAC | NAC | NAC | NAC | NAC | NAC |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Liquid Treatment Area | | | | |
|--|-----------------------|--------------|--------------|---------------------------|---------------|
| | Soil (mg/kg, dw) | | Plants | Terrestrial Invertebrates | Small Mammals |
| | (0-0.5 ft bgs) | (0-5 ft bgs) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) |
| Inorganics^a | | | | | |
| Barium | 330 | 330 | 51 | 30 | 0.39 |
| Beryllium | 0.62 | 0.62 | 0.41 | 0.028 | 0.021 |
| Cadmium | 34 | 34 | 4.3 | 137 | 1.5 |
| Chromium | 68 | 68 | 2.8 | 21 | 5.1 |
| Cobalt | 18 | 18 | 0.14 | 2.2 | 0.50 |
| Copper | 96 | 96 | 12 | 49 | 15 |
| Total Cyanide | 9.8 | 9.8 | 0.0 | 0.0 | 0.0 |
| Lead | 41 | 41 | 2.1 | 16 | 5.6 |
| Manganese | 450 | 1300 | 103 | 29 | 9.2 |
| Mercury | 0.065 | 0.070 | 0.090 | 0.37 | 0.0035 |
| Molybdenum | 6.9 | 8.6 | 38 | 1.2 | 11 |
| Nickel | 49 | 59 | 2.3 | -- | 4.8 |
| Selenium | 1.7 | 2.6 | 1.5 | 1.4 | 0.81 |
| Thallium | 0.49 | 0.95 | 0.0038 | 0.13 | 0.055 |
| Tin | 72 | 72 | 14 | 12 | 0.72 |
| Vanadium | 46 | 140 | 0.68 | 1.9 | 0.57 |
| Zinc | 280 | 280 | 110 | 543 | 117 |
| Dioxins/Furans | | | | | |
| Total Avian Dioxin TEQ | 0.00000064 | 0.00000064 | 0.0000000036 | 0.0000016 | 0.00000035 |
| Total Mammalian Dioxin TEQ | 0.0000011 | 0.0000011 | 0.000000064 | 0.0000032 | 0.00000066 |
| Total Avian TEQ | No Data | No Data | No Data | No Data | No Data |
| Total Mammalian TEQ | No Data | No Data | No Data | No Data | No Data |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.054 | 0.076 | 0.0 | 0.0 | 0.0 |
| Dalapon | 0.054 | 0.068 | 0.0 | 0.0 | 0.0 |
| MCPA | 0.82 | 19 | 0.0 | 0.0 | 0.0 |
| MCPP | 1400 | 1400 | 0.0 | 0.0 | 0.0 |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthene | 0.051 | 0.051 | 0.049 | 0.075 | 0.0 |
| Anthracene | 0.0089 | 0.0089 | 0.0094 | 0.022 | 0.0 |
| Benz(a)anthracene | 0.0067 | 0.0067 | 0.0034 | 0.011 | 0.0 |
| Benz(a)pyrene | 0.0077 | 0.0078 | 0.0011 | 0.010 | 0.0 |
| Benz(b)fluoranthene | 0.0093 | 0.0093 | 0.0029 | 0.024 | 0.0 |
| Benz(g,h,i)perylene | 0.0034 | 0.0034 | 0.00047 | 0.010 | 0.0 |
| Benz(k)fluoranthene | 0.0045 | 0.0045 | 0.0011 | 0.012 | 0.0 |
| Chrysene | 0.032 | 0.032 | 0.0086 | 0.073 | 0.0 |
| Fluoranthene | 0.011 | 0.011 | 0.0055 | 0.033 | 0.0 |
| Fluorene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Indeno(1,2,3-c,d)pyrene | 0.0027 | 0.0027 | 0.00030 | 0.0077 | 0.0 |
| Naphthalene | 0.0078 | 0.0078 | 0.095 | 0.034 | 0.0 |
| Pyrene | 0.031 | 0.031 | 0.022 | 0.054 | 0.0 |
| Total LMW PAH | No Data | No Data | No Data | No Data | No Data |
| Total HMW PAH | No Data | No Data | No Data | No Data | No Data |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Sum of PCB Congeners | 0.0069 | 0.0069 | 0.000031 | 0.0046 | 0.00012 |
| Total Avian PCB TEQ | 0.000013 | 0.000013 | 0.000000060 | 0.00000093 | 0.000000023 |
| Total Mammalian PCB TEQ | 0.0000011 | 0.0000011 | 0.000000052 | 0.000000034 | 0.0000000084 |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Liquid Treatment Area | | | | |
|---|-----------------------|--------------|-------------|---------------------------|---------------|
| | Soil (mg/kg, dw) | | Plants | Terrestrial Invertebrates | Small Mammals |
| | (0-0.5 ft bgs) | (0-5 ft bgs) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) |
| Pesticides | | | | | |
| 4,4'-DDE | 0.0022 | 0.0022 | 0.00081 | 0.054 | 5.9 |
| 4,4'-DDT | 3.1 | 3.1 | 0.19 | 22 | 31 |
| Hexachlorobenzene | 3.1 | 3.1 | 1.3 | 57 | 69 |
| Methoxychlor | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Bis(2-ethylhexyl)phthalate | 1.7 | 1.7 | 0.0 | 3.4 | 0.0 |
| Diethylphthalate | 0.0 | 0.37 | 0.0 | 0.0 | 0.0 |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1,1-Trichloroethane | 0.0 | 0.0017 | 0.0 | 0.0 | 0.0 |
| 1,1-Dichloroethane | 0.0025 | 0.0025 | 0.0 | 0.0 | 0.0 |
| 1,1-Dichloroethylene | 0.0 | 0.037 | 0.0 | 0.0 | 0.0 |
| 1,2-Dichloroethene | 0.016 | 0.016 | 0.0 | 0.0 | 0.0 |
| Acetone | 0.20 | 0.20 | 0.0 | 0.0 | 0.0 |
| Acetonitrile | 0.19 | 0.19 | 0.0 | 0.0 | 0.0 |
| Acrolein | 0.0042 | 0.0042 | 0.0 | 0.0 | 0.0 |
| Benzene | 0.0024 | 0.0044 | 0.0 | 0.0 | 0.0 |
| Carbon disulfide | 0.0 | 0.011 | 0.0 | 0.0 | 0.0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0036 | 1.4 | 0.0 | 0.0 | 0.0 |
| Isopropanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methyl ethyl ketone | 0.0082 | 0.0082 | 0.0 | 0.0 | 0.0 |
| Methylene chloride | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Propanal | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tert-Butyl alcohol (TBA) | 0.040 | 0.060 | 0.0 | 0.0 | 0.0 |
| Tetrachloroethylene | 0.030 | 0.067 | 0.0 | 0.0 | 0.0 |
| Tetrahydrofuran | 0.0 | 0.15 | 0.0 | 0.0 | 0.0 |
| Toluene | 0.0032 | 0.0032 | 0.0 | 0.0 | 0.0 |
| Trichloroethylene | 0.0031 | 0.0038 | 0.0 | 0.0 | 0.0 |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Liquid Treatment Area | | | | |
|--|-----------------------|--------------|-------------|---------------------------|---------------|
| | Soil (mg/kg, dw) | | Plants | Terrestrial Invertebrates | Small Mammals |
| | (0-0.5 ft bgs) | (0-5 ft bgs) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) |
| Exposure Unit CPEC | | | | | |
| Herbicides | | | | | |
| 2,4,5-TP (Silvex) | NAC | NAC | NAC | NAC | NAC |
| 2-sec-Butyl-4,6-dinitrophenol (Dinoseb) | 0.021 | 0.057 | 0.0 | 0.0 | 0.0 |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthylene | NAC | NAC | NAC | NAC | NAC |
| Pesticides | | | | | |
| 4,4'-DDD | NAC | NAC | NAC | NAC | NAC |
| Aldrin | NAC | NAC | NAC | NAC | NAC |
| alpha-BHC | NAC | NAC | NAC | NAC | NAC |
| Chlordane, gamma | NAC | NAC | NAC | NAC | NAC |
| delta-BHC | NAC | NAC | NAC | NAC | NAC |
| Dieldrin | NAC | NAC | NAC | NAC | NAC |
| Endosulfan I | NAC | NAC | NAC | NAC | NAC |
| Endrin | NAC | NAC | NAC | NAC | NAC |
| Heptachlor epoxide | NAC | NAC | NAC | NAC | NAC |
| Mirex | 0.58 | 0.58 | 0.056 | 0.30 | 0.35 |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Benzoic Acid | NAC | NAC | NAC | NAC | NAC |
| Di-n-butylphthalate | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosodimethylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosodipropylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosomethylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosopyrrolidine | NAC | NAC | NAC | NAC | NAC |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | West Canyon Spray Area | | | | |
|--|------------------------|--------------|-------------|---------------------------|---------------|
| | Soil (mg/kg, dw) | | Plants | Terrestrial Invertebrates | Small Mammals |
| | (0-0.5 ft bgs) | (0-5 ft bgs) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) |
| Inorganics^a | | | | | |
| Barium | 280 | 280 | 44 | 25 | 0.33 |
| Beryllium | 0.72 | 0.72 | 0.46 | 0.032 | 0.023 |
| Cadmium | 20 | 20 | 3.2 | 90 | 1.2 |
| Chromium | 670 | 670 | 27 | 205 | 28 |
| Cobalt | 160 | 160 | 1.2 | 20 | 8.7 |
| Copper | 480 | 480 | 22 | 247 | 19 |
| Total Cyanide | No Data | No Data | No Data | No Data | No Data |
| Lead | 60 | 60 | 2.6 | 22 | 6.6 |
| Manganese | 1200 | 1200 | 95 | 56 | 25 |
| Mercury | 0.092 | 0.092 | 0.10 | 0.41 | 0.0050 |
| Molybdenum | 5.3 | 7.6 | 34 | 0.89 | 10 |
| Nickel | 240 | 240 | 6.5 | -- | 10 |
| Selenium | 1.7 | 1.7 | 0.91 | 1.4 | 0.81 |
| Thallium | 0.52 | 0.95 | 0.0038 | 0.13 | 0.058 |
| Tin | 72 | 72 | 14 | 12 | 0.72 |
| Vanadium | 38 | 38 | 0.18 | 1.6 | 0.47 |
| Zinc | 450 | 450 | 143 | 634 | 121 |
| Dioxins/Furans | | | | | |
| Total Avian Dioxin TEQ | 0.0000053 | 0.0000053 | 0.000000030 | 0.000020 | 0.0000036 |
| Total Mammalian Dioxin TEQ | 0.0000061 | 0.0000061 | 0.000000034 | 0.000023 | 0.0000041 |
| Total Avian TEQ | No Data | No Data | No Data | No Data | No Data |
| Total Mammalian TEQ | No Data | No Data | No Data | No Data | No Data |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | No Data | No Data | No Data | No Data | No Data |
| Dalapon | No Data | No Data | No Data | No Data | No Data |
| MCPA | No Data | No Data | No Data | No Data | No Data |
| MCPP | No Data | No Data | No Data | No Data | No Data |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Anthracene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(a)anthracene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(a)pyrene | 0.0 | 0.0044 | 0.00064 | 0.0 | 0.0 |
| Benzo(b)fluoranthene | 0.0043 | 0.0043 | 0.0013 | 0.011 | 0.0 |
| Benzo(g,h,i)perylene | 0.0079 | 0.014 | 0.0025 | 0.023 | 0.0 |
| Benzo(k)fluoranthene | 0.0 | 0.0059 | 0.0014 | 0.0 | 0.0 |
| Chrysene | 0.0054 | 0.0054 | 0.0030 | 0.012 | 0.0 |
| Fluoranthene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fluorene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Indeno(1,2,3-c,d)pyrene | 0.0038 | 0.012 | 0.0013 | 0.011 | 0.0 |
| Naphthalene | 0.010 | 0.010 | 0.12 | 0.044 | 0.0 |
| Pyrene | 0.0033 | 0.0033 | 0.0024 | 0.0058 | 0.0 |
| Total LMW PAH | No Data | No Data | No Data | No Data | No Data |
| Total HMW PAH | No Data | No Data | No Data | No Data | No Data |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.026 | 0.026 | 0.00012 | 0.029 | 0.00071 |
| Sum of PCB Congeners | 0.0052 | 0.0052 | 0.000024 | 0.0032 | 0.000081 |
| Total Avian PCB TEQ | 0.0000032 | 0.0000032 | 0.000000014 | 0.00000013 | 0.000000034 |
| Total Mammalian PCB TEQ | 0.0000052 | 0.0000052 | 0.000000023 | 0.000000011 | 0.000000028 |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | West Canyon Spray Area | | | | |
|---|------------------------|--------------|-------------|---------------------------|---------------|
| | Soil (mg/kg, dw) | | Plants | Terrestrial Invertebrates | Small Mammals |
| | (0-0.5 ft bgs) | (0-5 ft bgs) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) |
| Pesticides | | | | | |
| 4,4'-DDE | 0.0020 | 0.0020 | 0.00076 | 0.050 | 5.6 |
| 4,4'-DDT | 0.0057 | 0.0057 | 0.0017 | 0.094 | 0.58 |
| Hexachlorobenzene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methoxychlor | 0.0024 | 0.0024 | 0.0016 | 0.0030 | 0.0036 |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Bis(2-ethylhexyl)phthalate | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Diethylphthalate | 2.0 | 2.0 | 0.0 | 0.0 | 0.0 |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1,1-Trichloroethane | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,1-Dichloroethane | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,1-Dichloroethylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,2-Dichloroethene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Acetone | No Data | No Data | No Data | No Data | No Data |
| Acetonitrile | No Data | No Data | No Data | No Data | No Data |
| Acrolein | No Data | No Data | No Data | No Data | No Data |
| Benzene | 0.0018 | 0.0018 | 0.0 | 0.0 | 0.0 |
| Carbon disulfide | 0.044 | 0.044 | 0.0 | 0.0 | 0.0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0072 | 0.0072 | 0.0 | 0.0 | 0.0 |
| Isopropanol | No Data | No Data | No Data | No Data | No Data |
| Methyl ethyl ketone | No Data | No Data | No Data | No Data | No Data |
| Methylene chloride | 0.0012 | 0.0015 | 0.0 | 0.0 | 0.0 |
| Propanal | 0.25 | 0.25 | 0.0 | 0.0 | 0.0 |
| Tert-Butyl alcohol (TBA) | No Data | No Data | No Data | No Data | No Data |
| Tetrachloroethylene | 0.0029 | 0.10 | 0.0 | 0.0 | 0.0 |
| Tetrahydrofuran | 0.0081 | 0.0081 | 0.0 | 0.0 | 0.0 |
| Toluene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Trichloroethylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | West Canyon Spray Area | | | | |
|--|------------------------------------|------------------------|--|------------------------------|-------|
| | Soil (mg/kg, dw) (0-0.5 ft bgs) | Plants (0-5 ft bgs) | Terrestrial Invertebrates (mg/kg, dw) | Small Mammals (mg/kg, dw) | |
| | | | | | |
| Exposure Unit CPEC | | | | | |
| Herbicides | | | | | |
| 2,4,5-TP (Silvex) | NAC | NAC | NAC | NAC | NAC |
| 2-sec-Butyl-4,6-dinitrophenol (Dinoseb) | NAC | NAC | NAC | NAC | NAC |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthylene | NAC | NAC | NAC | NAC | NAC |
| Pesticides | | | | | |
| 4,4'-DDD | NAC | NAC | NAC | NAC | NAC |
| Aldrin | NAC | NAC | NAC | NAC | NAC |
| alpha-BHC | NAC | NAC | NAC | NAC | NAC |
| Chlordane, gamma | 0.0045 | 0.0045 | 0.00086 | 0.11 | 0.13 |
| delta-BHC | 0.0035 | 0.0035 | 0.0044 | 0.021 | 0.025 |
| Dieldrin | NAC | NAC | NAC | NAC | NAC |
| Endosulfan I | NAC | NAC | NAC | NAC | NAC |
| Endrin | NAC | NAC | NAC | NAC | NAC |
| Heptachlor epoxide | NAC | NAC | NAC | NAC | NAC |
| Mirex | NAC | NAC | NAC | NAC | NAC |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Benzoic Acid | NAC | NAC | NAC | NAC | NAC |
| Di-n-butylphthalate | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosodimethylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosodipropylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosomethylalkylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosopyrrolidine | NAC | NAC | NAC | NAC | NAC |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Burial Trench Area | | | | |
|--|--------------------|--------------|-------------|---------------------------|---------------|
| | Soil (mg/kg, dw) | | Plants | Terrestrial Invertebrates | Small Mammals |
| | (0-0.5 ft bgs) | (0-5 ft bgs) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) |
| Inorganics^a | | | | | |
| Barium | 320 | 320 | 50 | 29 | 0.37 |
| Beryllium | 0.73 | 1.0 | 0.59 | 0.033 | 0.029 |
| Cadmium | 2.2 | 2.2 | 0.96 | 15 | 0.41 |
| Chromium | 48 | 270 | 11 | 15 | 4.0 |
| Cobalt | 8.2 | 8.2 | 0.062 | 1.0 | 0.18 |
| Copper | 23 | 96 | 12 | 12 | 12 |
| Total Cyanide | 0.0 | 0.42 | 0.0 | 0.0 | 0.0 |
| Lead | 14 | 14 | 1.2 | 6.8 | 3.5 |
| Manganese | 670 | 670 | 53 | 38 | 14 |
| Mercury | 0.030 | 0.030 | 0.056 | 0.28 | 0.0016 |
| Molybdenum | 5.1 | 6.2 | 27 | 0.86 | 8.2 |
| Nickel | 53 | 80 | 2.9 | -- | 5.0 |
| Selenium | 11 | 11 | 7.2 | 5.4 | 1.6 |
| Thallium | 0.45 | 0.45 | 0.0018 | 0.12 | 0.050 |
| Tin | 51 | 51 | 10 | 8.6 | 0.51 |
| Vanadium | 47 | 47 | 0.23 | 2.0 | 0.58 |
| Zinc | 97 | 97 | 61 | 384 | 108 |
| Dioxins/Furans | | | | | |
| Total Avian Dioxin TEQ | 0.0000047 | 0.0000080 | 0.000000045 | 0.000017 | 0.0000031 |
| Total Mammalian Dioxin TEQ | 0.0000062 | 0.000011 | 0.000000064 | 0.000024 | 0.0000042 |
| Total Avian TEQ | No Data | No Data | No Data | No Data | No Data |
| Total Mammalian TEQ | No Data | No Data | No Data | No Data | No Data |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.084 | 0.10 | 0.0 | 0.0 | 0.0 |
| Dalapon | 0.084 | 0.084 | 0.0 | 0.0 | 0.0 |
| MCPA | 0.0 | 0.71 | 0.0 | 0.0 | 0.0 |
| MCPP | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthene | 0.0 | 0.055 | 0.046 | 0.0 | 0.0 |
| Anthracene | 0.0 | 0.069 | 0.046 | 0.0 | 0.0 |
| Benzo(a)anthracene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(a)pyrene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(b)fluoranthene | 0.0 | 0.32 | 0.099 | 0.0 | 0.0 |
| Benzo(g,h,i)perylene | 0.0045 | 0.0045 | 0.00066 | 0.013 | 0.0 |
| Benzo(k)fluoranthene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Chrysene | 0.0050 | 0.87 | 0.061 | 0.011 | 0.0 |
| Fluoranthene | 0.0048 | 0.36 | 0.18 | 0.015 | 0.0 |
| Fluorene | 0.0 | 0.15 | 0.019 | 0.0 | 0.0 |
| Indeno(1,2,3-c,d)pyrene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Naphthalene | 0.0 | 0.16 | 2.0 | 0.0 | 0.0 |
| Pyrene | 0.0048 | 0.62 | 0.45 | 0.0084 | 0.0 |
| Total LMW PAH | No Data | No Data | No Data | No Data | No Data |
| Total HMW PAH | No Data | No Data | No Data | No Data | No Data |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.016 | 0.016 | 0.000073 | 0.015 | 0.00037 |
| Sum of PCB Congeners | 0.028 | 0.028 | 0.00013 | 0.032 | 0.00081 |
| Total Avian PCB TEQ | 0.000012 | 0.000012 | 0.000000056 | 0.00000085 | 0.000000021 |
| Total Mammalian PCB TEQ | 0.000036 | 0.000036 | 0.000000016 | 0.00000016 | 0.000000039 |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Burial Trench Area | | | | |
|---|------------------------------------|------------------------|-------------|--|------------------------------|
| | Soil (mg/kg, dw) (0-0.5 ft bgs) | Plants (0-5 ft bgs) | (mg/kg, dw) | Terrestrial Invertebrates (mg/kg, dw) | Small Mammals (mg/kg, dw) |
| Pesticides | | | | | |
| 4,4'-DDE | 0.0 | 0.014 | 0.0033 | 0.0 | 0.0 |
| 4,4'-DDT | 0.0080 | 0.063 | 0.010 | 0.13 | 0.72 |
| Hexachlorobenzene | 0.0023 | 0.0023 | 0.00097 | 0.042 | 0.051 |
| Methoxychlor | 0.0039 | 0.0039 | 0.0026 | 0.0048 | 0.0058 |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Bis(2-ethylhexyl)phthalate | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Diethylphthalate | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1,1-Trichloroethane | 0.064 | 0.064 | 0.0 | 0.0 | 0.0 |
| 1,1-Dichloroethane | 0.35 | 4.3 | 0.0 | 0.0 | 0.0 |
| 1,1-Dichloroethylene | 0.017 | 0.034 | 0.0 | 0.0 | 0.0 |
| 1,2-Dichloroethene | 0.0 | 0.015 | 0.0 | 0.0 | 0.0 |
| Acetone | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 |
| Acetonitrile | 0.17 | 0.17 | 0.0 | 0.0 | 0.0 |
| Acrolein | 0.017 | 0.017 | 0.0 | 0.0 | 0.0 |
| Benzene | 0.0020 | 0.0055 | 0.0 | 0.0 | 0.0 |
| Carbon disulfide | 0.021 | 0.021 | 0.0 | 0.0 | 0.0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.24 | 5.0 | 0.0 | 0.0 | 0.0 |
| Isopropanol | 0.067 | 0.067 | 0.0 | 0.0 | 0.0 |
| Methyl ethyl ketone | 0.36 | 0.36 | 0.0 | 0.0 | 0.0 |
| Methylene chloride | 0.0 | 0.032 | 0.0 | 0.0 | 0.0 |
| Propanal | 0.18 | 0.18 | 0.0 | 0.0 | 0.0 |
| Tert-Butyl alcohol (TBA) | 0.020 | 0.020 | 0.0 | 0.0 | 0.0 |
| Tetrachloroethylene | 0.33 | 0.33 | 0.0 | 0.0 | 0.0 |
| Tetrahydrofuran | 0.0 | 0.046 | 0.0 | 0.0 | 0.0 |
| Toluene | 0.0032 | 0.0034 | 0.0 | 0.0 | 0.0 |
| Trichloroethylene | 24 | 24 | 0.0 | 0.0 | 0.0 |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Burial Trench Area | | | | |
|--|------------------------------------|------------------------|-------------|--|------------------------------|
| | Soil (mg/kg, dw) (0-0.5 ft bgs) | Plants (0-5 ft bgs) | (mg/kg, dw) | Terrestrial Invertebrates (mg/kg, dw) | Small Mammals (mg/kg, dw) |
| Exposure Unit CPEC | | | | | |
| Herbicides | | | | | |
| 2,4,5-TP (Silvex) | 0.022 | 0.022 | 0.0 | 0.0 | 0.0 |
| 2-sec-Butyl-4,6-dinitrophenol (Dinoseb) | NAC | NAC | NAC | NAC | NAC |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthylene | NAC | NAC | NAC | NAC | NAC |
| Pesticides | | | | | |
| 4,4'-DDD | NAC | NAC | NAC | NAC | NAC |
| Aldrin | NAC | NAC | NAC | NAC | NAC |
| alpha-BHC | NAC | NAC | NAC | NAC | NAC |
| Chlordane, gamma | NAC | NAC | NAC | NAC | NAC |
| delta-BHC | NAC | NAC | NAC | NAC | NAC |
| Dieldrin | NAC | NAC | NAC | NAC | NAC |
| Endosulfan I | NAC | NAC | NAC | NAC | NAC |
| Endrin | NAC | NAC | NAC | NAC | NAC |
| Heptachlor epoxide | NAC | NAC | NAC | NAC | NAC |
| Mirex | NAC | NAC | NAC | NAC | NAC |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Benzoic Acid | 0.34 | 0.34 | 0.0 | 0.0 | 0.0 |
| Di-n-butylphthalate | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosodimethylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosodipropylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosomethylethlamine | 0.0051 | 0.0067 | 0.0 | 0.0 | 0.0 |
| N-Nitrosopyrrolidine | NAC | NAC | NAC | NAC | NAC |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Maintenance Shed Area | | | | |
|--|-----------------------|--------------|-------------|---------------------------|---------------|
| | Soil (mg/kg, dw) | | Plants | Terrestrial Invertebrates | Small Mammals |
| | (0-0.5 ft bgs) | (0-5 ft bgs) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) |
| Inorganics^a | | | | | |
| Barium | 1300 | 1300 | 203 | 118 | 1.5 |
| Beryllium | 0.54 | 0.55 | 0.38 | 0.024 | 0.019 |
| Cadmium | 11 | 11 | 2.3 | 56 | 0.88 |
| Chromium | 300 | 300 | 12 | 92 | 15 |
| Cobalt | 7.4 | 7.4 | 0.056 | 0.90 | 0.16 |
| Copper | 170 | 170 | 15 | 88 | 16 |
| Total Cyanide | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Lead | 970 | 970 | 13 | 207 | 23 |
| Manganese | 290 | 350 | 28 | 21 | 5.9 |
| Mercury | 0.22 | 0.22 | 0.17 | 0.56 | 0.012 |
| Molybdenum | 4.3 | 4.3 | 19 | 0.72 | 5.7 |
| Nickel | 86 | 86 | 3.0 | -- | 6.2 |
| Selenium | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Thallium | 1.9 | 1.9 | 0.0076 | 0.49 | 0.21 |
| Tin | 62 | 62 | 12 | 10 | 0.62 |
| Vanadium | 36 | 36 | 0.17 | 1.5 | 0.44 |
| Zinc | 350 | 350 | 124 | 584 | 119 |
| Dioxins/Furans | | | | | |
| Total Avian Dioxin TEQ | 0.000034 | 0.000034 | 0.00000019 | 0.00018 | 0.000027 |
| Total Mammalian Dioxin TEQ | 0.000019 | 0.000019 | 0.00000011 | 0.000090 | 0.000015 |
| Total Avian TEQ | No Data | No Data | No Data | No Data | No Data |
| Total Mammalian TEQ | No Data | No Data | No Data | No Data | No Data |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Dalapon | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MCPA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MCPP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthene | 0.0 | 0.0049 | 0.36 | 0.0 | 0.0 |
| Anthracene | 0.0048 | 0.0048 | 0.0058 | 0.012 | 0.0 |
| Benzo(a)anthracene | 0.0077 | 0.0077 | 0.0037 | 0.012 | 0.0 |
| Benzo(a)pyrene | 0.019 | 0.019 | 0.0027 | 0.025 | 0.0 |
| Benzo(b)fluoranthene | 0.0060 | 0.0076 | 0.0024 | 0.016 | 0.0 |
| Benzo(g,h,i)perylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(k)fluoranthene | 0.018 | 0.018 | 0.0037 | 0.047 | 0.0 |
| Chrysene | 0.018 | 0.018 | 0.0061 | 0.041 | 0.0 |
| Fluoranthene | 0.011 | 0.012 | 0.0060 | 0.033 | 0.0 |
| Fluorene | 0.0039 | 0.0088 | 0.22 | 0.037 | 0.0 |
| Indeno(1,2,3-c,d)pyrene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Naphthalene | 0.017 | 0.041 | 0.50 | 0.075 | 0.0 |
| Pyrene | 0.019 | 0.019 | 0.014 | 0.033 | 0.0 |
| Total LMW PAH | No Data | No Data | No Data | No Data | No Data |
| Total HMW PAH | No Data | No Data | No Data | No Data | No Data |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.55 | 0.55 | 0.0025 | 1.8 | 0.045 |
| Sum of PCB Congeners | 0.064 | 0.064 | 0.00029 | 0.096 | 0.0024 |
| Total Avian PCB TEQ | 0.000026 | 0.000026 | 0.00000012 | 0.0000023 | 0.000000059 |
| Total Mammalian PCB TEQ | 0.0000074 | 0.0000074 | 0.00000034 | 0.00000043 | 0.000000011 |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Maintenance Shed Area | | | | |
|---|-----------------------|--------------|-------------|---------------------------|---------------|
| | Soil (mg/kg, dw) | | Plants | Terrestrial Invertebrates | Small Mammals |
| | (0-0.5 ft bgs) | (0-5 ft bgs) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) |
| Pesticides | | | | | |
| 4,4'-DDE | 0.010 | 0.010 | 0.0025 | 0.21 | 14 |
| 4,4'-DDT | 0.081 | 0.081 | 0.012 | 0.94 | 3.1 |
| Hexachlorobenzene | 0.0063 | 0.0063 | 0.0027 | 0.12 | 0.14 |
| Methoxychlor | 0.017 | 0.017 | 0.011 | 0.021 | 0.025 |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Bis(2-ethylhexyl)phthalate | 0.47 | 0.47 | 0.0 | 0.94 | 0.0 |
| Diethylphthalate | 0.24 | 0.24 | 0.0 | 0.0 | 0.0 |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1,1-Trichloroethane | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,1-Dichloroethane | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,1-Dichloroethylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,2-Dichloroethene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Acetone | 0.061 | 0.061 | 0.0 | 0.0 | 0.0 |
| Acetonitrile | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Acrolein | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzene | 0.0019 | 0.0019 | 0.0 | 0.0 | 0.0 |
| Carbon disulfide | 0.043 | 0.043 | 0.0 | 0.0 | 0.0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0037 | 0.0066 | 0.0 | 0.0 | 0.0 |
| Isopropanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methyl ethyl ketone | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methylene chloride | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Propanal | 1.3 | 1.3 | 0.0 | 0.0 | 0.0 |
| Tert-Butyl alcohol (TBA) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tetrachloroethylene | 0.0025 | 0.0060 | 0.0 | 0.0 | 0.0 |
| Tetrahydrofuran | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Toluene | 0.0050 | 0.0050 | 0.0 | 0.0 | 0.0 |
| Trichloroethylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Maintenance Shed Area | | | | |
|--|------------------------------------|------------------------|--|------------------------------|-----|
| | Soil (mg/kg, dw) (0-0.5 ft bgs) | Plants (0-5 ft bgs) | Terrestrial Invertebrates (mg/kg, dw) | Small Mammals (mg/kg, dw) | |
| | | | | | |
| Exposure Unit CPEC | | | | | |
| Herbicides | | | | | |
| 2,4,5-TP (Silvex) | NAC | NAC | NAC | NAC | NAC |
| 2-sec-Butyl-4,6-dinitrophenol (Dinoseb) | NAC | NAC | NAC | NAC | NAC |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthylene | 0.0022 | 0.0022 | 0.32 | 0.050 | 0.0 |
| Pesticides | | | | | |
| 4,4'-DDD | NAC | NAC | NAC | NAC | NAC |
| Aldrin | NAC | NAC | NAC | NAC | NAC |
| alpha-BHC | NAC | NAC | NAC | NAC | NAC |
| Chlordane, gamma | NAC | NAC | NAC | NAC | NAC |
| delta-BHC | NAC | NAC | NAC | NAC | NAC |
| Dieldrin | NAC | NAC | NAC | NAC | NAC |
| Endosulfan I | NAC | NAC | NAC | NAC | NAC |
| Endrin | NAC | NAC | NAC | NAC | NAC |
| Heptachlor epoxide | NAC | NAC | NAC | NAC | NAC |
| Mirex | NAC | NAC | NAC | NAC | NAC |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Benzoic Acid | 0.41 | 0.41 | 0.0 | 0.0 | 0.0 |
| Di-n-butylphthalate | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosodimethylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosodipropylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosomethylalkylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosopyrrolidine | NAC | NAC | NAC | NAC | NAC |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Central Drainage Area | | | | |
|--|-----------------------|--------------|-------------|---------------------------|---------------|
| | Soil (mg/kg, dw) | | Plants | Terrestrial Invertebrates | Small Mammals |
| | (0-0.5 ft bgs) | (0-5 ft bgs) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) |
| Inorganics^a | | | | | |
| Barium | 960 | 960 | 150 | 87 | 1.1 |
| Beryllium | 0.61 | 0.73 | 0.46 | 0.027 | 0.023 |
| Cadmium | 2.7 | 22 | 3.4 | 18 | 0.45 |
| Chromium | 75 | 75 | 3.1 | 23 | 5.5 |
| Cobalt | 7.6 | 9.5 | 0.071 | 0.93 | 0.16 |
| Copper | 64 | 64 | 10 | 33 | 14 |
| Total Cyanide | 0.0 | 0.30 | 0.0 | 0.0 | 0.0 |
| Lead | 28 | 28 | 1.7 | 12 | 4.7 |
| Manganese | 290 | 990 | 78 | 21 | 5.9 |
| Mercury | 0.43 | 0.43 | 0.24 | 0.70 | 0.023 |
| Molybdenum | 6.5 | 7.5 | 33 | 1.1 | 9.9 |
| Nickel | 52 | 89 | 3.1 | -- | 4.9 |
| Selenium | 1.8 | 2.3 | 1.3 | 1.4 | 0.82 |
| Thallium | 0.61 | 0.61 | 0.0024 | 0.16 | 0.068 |
| Tin | 64 | 64 | 13 | 11 | 0.64 |
| Vanadium | 51 | 51 | 0.25 | 2.1 | 0.63 |
| Zinc | 170 | 170 | 83 | 461 | 113 |
| Dioxins/Furans | | | | | |
| Total Avian Dioxin TEQ | 0.000078 | 0.000078 | 0.00000044 | 0.00048 | 0.000069 |
| Total Mammalian Dioxin TEQ | 0.000058 | 0.000058 | 0.00000032 | 0.00033 | 0.000049 |
| Total Avian TEQ | No Data | No Data | No Data | No Data | No Data |
| Total Mammalian TEQ | No Data | No Data | No Data | No Data | No Data |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.029 | 0.032 | 0.0 | 0.0 | 0.0 |
| Dalapon | 0.016 | 0.045 | 0.0 | 0.0 | 0.0 |
| MCPA | 1.8 | 1.8 | 0.0 | 0.0 | 0.0 |
| MCPP | 120 | 120 | 0.0 | 0.0 | 0.0 |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthene | 0.063 | 0.063 | 0.041 | 0.093 | 0.0 |
| Anthracene | 0.030 | 0.030 | 0.024 | 0.073 | 0.0 |
| Benzo(a)anthracene | 0.036 | 0.036 | 0.0092 | 0.057 | 0.0 |
| Benzo(a)pyrene | 0.081 | 0.081 | 0.011 | 0.11 | 0.0 |
| Benzo(b)fluoranthene | 0.057 | 0.057 | 0.018 | 0.15 | 0.0 |
| Benzo(g,h,i)perylene | 0.026 | 0.026 | 0.0053 | 0.076 | 0.0 |
| Benzo(k)fluoranthene | 0.40 | 0.40 | 0.053 | 1.0 | 0.0 |
| Chrysene | 0.097 | 0.097 | 0.017 | 0.22 | 0.0 |
| Fluoranthene | 0.29 | 0.29 | 0.15 | 0.88 | 0.0 |
| Fluorene | 0.097 | 0.097 | 0.028 | 0.93 | 0.0 |
| Indeno(1,2,3-c,d)pyrene | 0.015 | 0.015 | 0.0017 | 0.043 | 0.0 |
| Naphthalene | 0.060 | 0.070 | 0.85 | 0.26 | 0.0 |
| Pyrene | 0.39 | 0.39 | 0.28 | 0.68 | 0.0 |
| Total LMW PAH | No Data | No Data | No Data | No Data | No Data |
| Total HMW PAH | No Data | No Data | No Data | No Data | No Data |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 3.2 | 3.2 | 0.015 | 20 | 0.50 |
| Sum of PCB Congeners | 0.23 | 0.23 | 0.0011 | 0.57 | 0.014 |
| Total Avian PCB TEQ | 0.00030 | 0.00030 | 0.0000013 | 0.000064 | 0.0000016 |
| Total Mammalian PCB TEQ | 0.000032 | 0.000032 | 0.0000015 | 0.0000032 | 0.00000079 |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Central Drainage Area | | | | |
|---|-----------------------|--------------|-------------|---------------------------|---------------|
| | Soil (mg/kg, dw) | | Plants | Terrestrial Invertebrates | Small Mammals |
| | (0-0.5 ft bgs) | (0-5 ft bgs) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) |
| Pesticides | | | | | |
| 4,4'-DDE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4,4'-DDT | 0.033 | 0.37 | 0.038 | 0.43 | 1.8 |
| Hexachlorobenzene | 0.078 | 0.36 | 0.15 | 1.4 | 1.7 |
| Methoxychlor | 0.0056 | 0.0056 | 0.0037 | 0.0069 | 0.0083 |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Bis(2-ethylhexyl)phthalate | 29 | 29 | 0.0 | 58 | 0.0 |
| Diethylphthalate | 0.22 | 0.22 | 0.0 | 0.0 | 0.0 |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1,1-Trichloroethane | 1.5 | 1.5 | 0.0 | 0.0 | 0.0 |
| 1,1-Dichloroethane | 0.46 | 4.2 | 0.0 | 0.0 | 0.0 |
| 1,1-Dichloroethylene | 0.019 | 0.35 | 0.0 | 0.0 | 0.0 |
| 1,2-Dichloroethene | 0.084 | 2.1 | 0.0 | 0.0 | 0.0 |
| Acetone | 0.060 | 0.060 | 0.0 | 0.0 | 0.0 |
| Acetonitrile | 0.18 | 0.18 | 0.0 | 0.0 | 0.0 |
| Acrolein | 0.0089 | 0.0089 | 0.0 | 0.0 | 0.0 |
| Benzene | 0.0025 | 0.95 | 0.0 | 0.0 | 0.0 |
| Carbon disulfide | 0.018 | 0.018 | 0.0 | 0.0 | 0.0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.62 | 4.7 | 0.0 | 0.0 | 0.0 |
| Isopropanol | 0.053 | 0.074 | 0.0 | 0.0 | 0.0 |
| Methyl ethyl ketone | 0.020 | 0.020 | 0.0 | 0.0 | 0.0 |
| Methylene chloride | 0.26 | 0.43 | 0.0 | 0.0 | 0.0 |
| Propanal | 0.023 | 0.023 | 0.0 | 0.0 | 0.0 |
| Tert-Butyl alcohol (TBA) | 0.021 | 0.040 | 0.0 | 0.0 | 0.0 |
| Tetrachloroethylene | 3.4 | 9.3 | 0.0 | 0.0 | 0.0 |
| Tetrahydrofuran | 0.0026 | 0.18 | 0.0 | 0.0 | 0.0 |
| Toluene | 0.0012 | 0.32 | 0.0 | 0.0 | 0.0 |
| Trichloroethylene | 0.65 | 5.9 | 0.0 | 0.0 | 0.0 |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Central Drainage Area | | | | |
|--|------------------------------------|------------------------|--|------------------------------|-------|
| | Soil (mg/kg, dw) (0-0.5 ft bgs) | Plants (0-5 ft bgs) | Terrestrial Invertebrates (mg/kg, dw) | Small Mammals (mg/kg, dw) | |
| | | | | | |
| Exposure Unit CPEC | | | | | |
| Herbicides | | | | | |
| 2,4,5-TP (Silvex) | NAC | NAC | NAC | NAC | NAC |
| 2-sec-Butyl-4,6-dinitrophenol (Dinoseb) | NAC | NAC | NAC | NAC | NAC |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthylene | 0.0078 | 0.0078 | 0.32 | 0.18 | 0.0 |
| Pesticides | | | | | |
| 4,4'-DDD | NAC | NAC | NAC | NAC | NAC |
| Aldrin | 0.019 | 0.019 | 0.0066 | 0.16 | 0.19 |
| alpha-BHC | NAC | NAC | NAC | NAC | NAC |
| Chlordane, gamma | NAC | NAC | NAC | NAC | NAC |
| delta-BHC | NAC | NAC | NAC | NAC | NAC |
| Dieldrin | NAC | NAC | NAC | NAC | NAC |
| Endosulfan I | NAC | NAC | NAC | NAC | NAC |
| Endrin | 0.12 | 0.12 | 0.10 | 0.61 | 0.73 |
| Heptachlor epoxide | NAC | NAC | NAC | NAC | NAC |
| Mirex | 0.080 | 0.080 | 0.0077 | 0.041 | 0.049 |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Benzoic Acid | NAC | NAC | NAC | NAC | NAC |
| Di-n-butylphthalate | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosodimethylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosodipropylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosomethylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosopyrrolidine | NAC | NAC | NAC | NAC | NAC |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Administration Building Area | | | | |
|--|------------------------------|--------------|--------------|---------------------------|----------------|
| | Soil (mg/kg, dw) | | Plants | Terrestrial Invertebrates | Small Mammals |
| | (0-0.5 ft bgs) | (0-5 ft bgs) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) |
| Inorganics^a | | | | | |
| Barium | 130 | 300 | 47 | 12 | 0.35 |
| Beryllium | 0.55 | 0.63 | 0.42 | 0.025 | 0.021 |
| Cadmium | 1.1 | 1.1 | 0.66 | 8.9 | 0.30 |
| Chromium | 27 | 32 | 1.3 | 8.3 | 2.6 |
| Cobalt | 6.0 | 6.0 | 0.045 | 0.73 | 0.12 |
| Copper | 14 | 14 | 5.5 | 7.2 | 11 |
| Total Cyanide | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Lead | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manganese | 810 | 810 | 64 | 43 | 17 |
| Mercury | 0.038 | 0.069 | 0.089 | 0.31 | 0.0021 |
| Molybdenum | 2.4 | 5.4 | 24 | 0.40 | 7.2 |
| Nickel | 31 | 34 | 1.5 | -- | 3.9 |
| Selenium | 1.4 | 1.4 | 0.74 | 1.2 | 0.75 |
| Thallium | 0.23 | 0.29 | 0.0012 | 0.059 | 0.026 |
| Tin | 38 | 58 | 12 | 6.4 | 0.58 |
| Vanadium | 30 | 38 | 0.18 | 1.3 | 0.37 |
| Zinc | 51 | 60 | 47 | 311 | 104 |
| Dioxins/Furans | | | | | |
| Total Avian Dioxin TEQ | 0.00000061 | 0.00000061 | 0.0000000034 | 0.0000015 | 0.00000033 |
| Total Mammalian Dioxin TEQ | 0.00000066 | 0.00000066 | 0.0000000037 | 0.0000017 | 0.00000036 |
| Total Avian TEQ | No Data | No Data | No Data | No Data | No Data |
| Total Mammalian TEQ | No Data | No Data | No Data | No Data | No Data |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.021 | 0.034 | 0.0 | 0.0 | 0.0 |
| Dalapon | 0.28 | 0.28 | 0.0 | 0.0 | 0.0 |
| MCPA | 3.0 | 3.0 | 0.0 | 0.0 | 0.0 |
| MCPP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthene | 0.0051 | 0.0051 | 0.35 | 0.0075 | 0.0 |
| Anthracene | 0.012 | 0.012 | 0.012 | 0.029 | 0.0 |
| Benzo(a)anthracene | 0.016 | 0.016 | 0.0057 | 0.025 | 0.0 |
| Benzo(a)pyrene | 0.015 | 0.015 | 0.0021 | 0.020 | 0.0 |
| Benzo(b)fluoranthene | 0.015 | 0.015 | 0.0047 | 0.039 | 0.0 |
| Benzo(g,h,i)perylene | 0.016 | 0.016 | 0.0030 | 0.047 | 0.0 |
| Benzo(k)fluoranthene | 0.014 | 0.014 | 0.0029 | 0.036 | 0.0 |
| Chrysene | 0.017 | 0.017 | 0.0059 | 0.039 | 0.0 |
| Fluoranthene | 0.013 | 0.013 | 0.0065 | 0.040 | 0.0 |
| Fluorene | 0.0070 | 0.0070 | 0.27 | 0.067 | 0.0 |
| Indeno(1,2,3-c,d)pyrene | 0.014 | 0.014 | 0.0015 | 0.040 | 0.0 |
| Naphthalene | 0.0042 | 0.0066 | 0.081 | 0.018 | 0.0 |
| Pyrene | 0.016 | 0.016 | 0.012 | 0.028 | 0.0 |
| Total LMW PAH | No Data | No Data | No Data | No Data | No Data |
| Total HMW PAH | No Data | No Data | No Data | No Data | No Data |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Sum of PCB Congeners | 0.00012 | 0.00012 | 0.00000053 | 0.000018 | 0.0000045 |
| Total Avian PCB TEQ | 0.000000056 | 0.000000056 | 0.0000000025 | 0.0000000055 | 0.00000000014 |
| Total Mammalian PCB TEQ | 0.000000010 | 0.000000010 | 0.0000000047 | 0.00000000024 | 0.000000000012 |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Administration Building Area | | | | |
|---|------------------------------|--------------|-------------|---------------------------|---------------|
| | Soil (mg/kg, dw) | | Plants | Terrestrial Invertebrates | Small Mammals |
| | (0-0.5 ft bgs) | (0-5 ft bgs) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) |
| Pesticides | | | | | |
| 4,4'-DDE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4,4'-DDT | 0.0029 | 0.0029 | 0.0010 | 0.052 | 0.38 |
| Hexachlorobenzene | 0.0069 | 0.0069 | 0.0029 | 0.13 | 0.15 |
| Methoxychlor | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Bis(2-ethylhexyl)phthalate | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Diethylphthalate | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1,1-Trichloroethane | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,1-Dichloroethane | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,1-Dichloroethylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,2-Dichloroethene | 0.0 | 0.0013 | 0.0 | 0.0 | 0.0 |
| Acetone | 0.040 | 0.078 | 0.0 | 0.0 | 0.0 |
| Acetonitrile | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Acrolein | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzene | 0.0035 | 0.0041 | 0.0 | 0.0 | 0.0 |
| Carbon disulfide | 0.0 | 0.0085 | 0.0 | 0.0 | 0.0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Isopropanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methyl ethyl ketone | 0.0 | 0.014 | 0.0 | 0.0 | 0.0 |
| Methylene chloride | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Propanal | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tert-Butyl alcohol (TBA) | 0.017 | 0.022 | 0.0 | 0.0 | 0.0 |
| Tetrachloroethylene | 0.0019 | 0.0020 | 0.0 | 0.0 | 0.0 |
| Tetrahydrofuran | 0.0 | 0.0026 | 0.0 | 0.0 | 0.0 |
| Toluene | 0.0 | 0.0017 | 0.0 | 0.0 | 0.0 |
| Trichloroethylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Administration Building Area | | | | |
|--|------------------------------------|------------------------|--|------------------------------|-----|
| | Soil (mg/kg, dw) (0-0.5 ft bgs) | Plants (0-5 ft bgs) | Terrestrial Invertebrates (mg/kg, dw) | Small Mammals (mg/kg, dw) | |
| | | | | | |
| Exposure Unit CPEC | | | | | |
| Herbicides | | | | | |
| 2,4,5-TP (Silvex) | NAC | NAC | NAC | NAC | NAC |
| 2-sec-Butyl-4,6-dinitrophenol (Dinoseb) | NAC | NAC | NAC | NAC | NAC |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthylene | NAC | NAC | NAC | NAC | NAC |
| Pesticides | | | | | |
| 4,4'-DDD | NAC | NAC | NAC | NAC | NAC |
| Aldrin | NAC | NAC | NAC | NAC | NAC |
| alpha-BHC | NAC | NAC | NAC | NAC | NAC |
| Chlordane, gamma | NAC | NAC | NAC | NAC | NAC |
| delta-BHC | NAC | NAC | NAC | NAC | NAC |
| Dieldrin | NAC | NAC | NAC | NAC | NAC |
| Endosulfan I | NAC | NAC | NAC | NAC | NAC |
| Endrin | NAC | NAC | NAC | NAC | NAC |
| Heptachlor epoxide | NAC | NAC | NAC | NAC | NAC |
| Mirex | NAC | NAC | NAC | NAC | NAC |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Benzoic Acid | NAC | NAC | NAC | NAC | NAC |
| Di-n-butylphthalate | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosodimethylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosodipropylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosomethylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosopyrrolidine | NAC | NAC | NAC | NAC | NAC |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Roadway Areas | | | | |
|--|------------------|--------------|--------------|---------------------------|---------------|
| | Soil (mg/kg, dw) | | Plants | Terrestrial Invertebrates | Small Mammals |
| | (0-0.5 ft bgs) | (0-5 ft bgs) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) |
| Inorganics^a | | | | | |
| Barium | 550 | 550 | 86 | 50 | 0.64 |
| Beryllium | 0.64 | 0.75 | 0.47 | 0.029 | 0.024 |
| Cadmium | 13 | 13 | 2.5 | 64 | 0.96 |
| Chromium | 470 | 470 | 19 | 144 | 21 |
| Cobalt | 6.2 | 16 | 0.12 | 0.76 | 0.12 |
| Copper | 350 | 350 | 20 | 180 | 18 |
| Total Cyanide | No Data | No Data | No Data | No Data | No Data |
| Lead | 61 | 61 | 2.7 | 22 | 6.6 |
| Manganese | 320 | 960 | 76 | 23 | 6.6 |
| Mercury | 0.15 | 0.15 | 0.14 | 0.49 | 0.0081 |
| Molybdenum | 6.4 | 6.4 | 28 | 1.1 | 8.5 |
| Nickel | 170 | 170 | 5.0 | -- | 8.6 |
| Selenium | 1.8 | 2.1 | 1.2 | 1.4 | 0.82 |
| Thallium | 0.57 | 0.84 | 0.0034 | 0.15 | 0.064 |
| Tin | 70 | 71 | 14 | 12 | 0.71 |
| Vanadium | 43 | 43 | 0.21 | 1.8 | 0.53 |
| Zinc | 360 | 360 | 126 | 590 | 119 |
| Dioxins/Furans | | | | | |
| Total Avian Dioxin TEQ | 0.00000018 | 0.00000018 | 0.0000000010 | 0.00000037 | 0.000000089 |
| Total Mammalian Dioxin TEQ | 0.0000011 | 0.0000011 | 0.0000000062 | 0.0000031 | 0.00000064 |
| Total Avian TEQ | No Data | No Data | No Data | No Data | No Data |
| Total Mammalian TEQ | No Data | No Data | No Data | No Data | No Data |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | No Data | No Data | No Data | No Data | No Data |
| Dalapon | No Data | No Data | No Data | No Data | No Data |
| MCPA | No Data | No Data | No Data | No Data | No Data |
| MCPP | No Data | No Data | No Data | No Data | No Data |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthene | 0.71 | 0.71 | 0.0051 | 1.0 | 0.0 |
| Anthracene | 0.33 | 0.33 | 0.16 | 0.80 | 0.0 |
| Benzo(a)anthracene | 0.19 | 0.19 | 0.025 | 0.30 | 0.0 |
| Benzo(a)pyrene | 0.22 | 0.22 | 0.029 | 0.29 | 0.0 |
| Benzo(b)fluoranthene | 0.0040 | 0.015 | 0.0047 | 0.010 | 0.0 |
| Benzo(g,h,i)perylene | 0.070 | 0.070 | 0.017 | 0.21 | 0.0 |
| Benzo(k)fluoranthene | 0.041 | 0.041 | 0.0074 | 0.11 | 0.0 |
| Chrysene | 0.95 | 0.95 | 0.065 | 2.2 | 0.0 |
| Fluoranthene | 0.57 | 0.57 | 0.29 | 1.7 | 0.0 |
| Fluorene | 2.2 | 2.2 | 0.0020 | 21 | 0.0 |
| Indeno(1,2,3-c,d)pyrene | 0.013 | 0.021 | 0.0023 | 0.037 | 0.0 |
| Naphthalene | 1.2 | 1.2 | 15 | 5.3 | 0.0 |
| Pyrene | 0.78 | 0.78 | 0.56 | 1.4 | 0.0 |
| Total LMW PAH | No Data | No Data | No Data | No Data | No Data |
| Total HMW PAH | No Data | No Data | No Data | No Data | No Data |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 1.5 | 1.5 | 0.0068 | 7.1 | 0.18 |
| Sum of PCB Congeners | 0.35 | 0.35 | 0.0016 | 0.99 | 0.025 |
| Total Avian PCB TEQ | 0.00040 | 0.00040 | 0.0000018 | 0.000096 | 0.0000024 |
| Total Mammalian PCB TEQ | 0.000027 | 0.000027 | 0.0000012 | 0.0000025 | 0.00000062 |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Roadway Areas | | | | |
|---|------------------|--------------|-------------|---------------------------|---------------|
| | Soil (mg/kg, dw) | | Plants | Terrestrial Invertebrates | Small Mammals |
| | (0-0.5 ft bgs) | (0-5 ft bgs) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) |
| Pesticides | | | | | |
| 4,4'-DDE | 0.0011 | 0.0011 | 0.00048 | 0.030 | 4.0 |
| 4,4'-DDT | 0.36 | 0.36 | 0.038 | 3.4 | 8.0 |
| Hexachlorobenzene | 0.0065 | 0.0065 | 0.0028 | 0.12 | 0.14 |
| Methoxychlor | 0.059 | 0.059 | 0.039 | 0.073 | 0.088 |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Bis(2-ethylhexyl)phthalate | 2.0 | 2.0 | 0.0 | 4.0 | 0.0 |
| Diethylphthalate | 0.19 | 3.1 | 0.0 | 0.0 | 0.0 |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1,1-Trichloroethane | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,1-Dichloroethane | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,1-Dichloroethylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,2-Dichloroethene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Acetone | No Data | No Data | No Data | No Data | No Data |
| Acetonitrile | No Data | No Data | No Data | No Data | No Data |
| Acrolein | No Data | No Data | No Data | No Data | No Data |
| Benzene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Carbon disulfide | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Isopropanol | No Data | No Data | No Data | No Data | No Data |
| Methyl ethyl ketone | No Data | No Data | No Data | No Data | No Data |
| Methylene chloride | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Propanal | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tert-Butyl alcohol (TBA) | No Data | No Data | No Data | No Data | No Data |
| Tetrachloroethylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tetrahydrofuran | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Toluene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Trichloroethylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Roadway Areas | | | | |
|--|------------------------------------|------------------------|--|------------------------------|------|
| | Soil (mg/kg, dw) (0-0.5 ft bgs) | Plants (0-5 ft bgs) | Terrestrial Invertebrates (mg/kg, dw) | Small Mammals (mg/kg, dw) | |
| | | | | | |
| Exposure Unit CPEC | | | | | |
| Herbicides | | | | | |
| 2,4,5-TP (Silvex) | NAC | NAC | NAC | NAC | NAC |
| 2-sec-Butyl-4,6-dinitrophenol (Dinoseb) | NAC | NAC | NAC | NAC | NAC |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthylene | 0.042 | 0.042 | 0.33 | 0.96 | 0.0 |
| Pesticides | | | | | |
| 4,4'-DDD | NAC | NAC | NAC | NAC | NAC |
| Aldrin | NAC | NAC | NAC | NAC | NAC |
| alpha-BHC | NAC | NAC | NAC | NAC | NAC |
| Chlordane, gamma | NAC | NAC | NAC | NAC | NAC |
| delta-BHC | NAC | NAC | NAC | NAC | NAC |
| Dieldrin | 0.015 | 0.015 | 0.013 | 0.22 | 0.26 |
| Endosulfan I | NAC | NAC | NAC | NAC | NAC |
| Endrin | NAC | NAC | NAC | NAC | NAC |
| Heptachlor epoxide | NAC | NAC | NAC | NAC | NAC |
| Mirex | NAC | NAC | NAC | NAC | NAC |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Benzoic Acid | NAC | NAC | NAC | NAC | NAC |
| Di-n-butylphthalate | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosodimethylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosodipropylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosomethylethlamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosopyrrolidine | NAC | NAC | NAC | NAC | NAC |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | A-Series Pond | | | | |
|--|------------------------------------|------------------------|--|------------------------------|----------------|
| | Soil (mg/kg, dw) (0-0.5 ft bgs) | Plants (0-5 ft bgs) | Terrestrial Invertebrates (mg/kg, dw) | Small Mammals (mg/kg, dw) | |
| Inorganics^a | | | | | |
| Barium | 160 | 160 | 25 | 15 | 0.19 |
| Beryllium | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Cadmium | 21 | 21 | 3.3 | 93 | 1.2 |
| Chromium | 28 | 28 | 1.1 | 8.6 | 2.7 |
| Cobalt | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Copper | 44 | 44 | 8.6 | 22 | 13 |
| Total Cyanide | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Lead | 9.8 | 9.8 | 0.95 | 5.1 | 3.0 |
| Manganese | 280 | 690 | 55 | 21 | 5.7 |
| Mercury | 0.040 | 0.040 | 0.066 | 0.31 | 0.0022 |
| Molybdenum | 21 | 21 | 93 | 3.5 | 28 |
| Nickel | 164 | 164 | 4.9 | -- | 8.4 |
| Selenium | 9.4 | 9.4 | 6.0 | 4.8 | 1.5 |
| Thallium | 0.51 | 0.51 | 0.0020 | 0.13 | 0.057 |
| Tin | 47 | 53 | 11 | 7.9 | 0.53 |
| Vanadium | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Zinc | 112 | 112 | 66 | 402 | 110 |
| Dioxins/Furans | | | | | |
| Total Avian Dioxin TEQ | 0.00000035 | 0.00000035 | 0.0000000019 | 0.00000080 | 0.00000018 |
| Total Mammalian Dioxin TEQ | 0.00000030 | 0.00000030 | 0.0000000017 | 0.00000066 | 0.00000015 |
| Total Avian TEQ | No Data | No Data | No Data | No Data | No Data |
| Total Mammalian TEQ | No Data | No Data | No Data | No Data | No Data |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.041 | 0.041 | 0.0 | 0.0 | 0.0 |
| Dalapon | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MCPA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MCPP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Anthracene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(a)anthracene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(a)pyrene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(b)fluoranthene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(g,h,i)perylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(k)fluoranthene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Chrysene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fluoranthene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fluorene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Indeno(1,2,3-c,d)pyrene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Naphthalene | 0.0039 | 0.0039 | 0.048 | 0.017 | 0.0 |
| Pyrene | 0.0 | 0.0067 | 0.0048 | 0.0 | 0.0 |
| Total LMW PAH | No Data | No Data | No Data | No Data | No Data |
| Total HMW PAH | No Data | No Data | No Data | No Data | No Data |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.0 | 0.024 | 0.00011 | 0.0 | 0.0 |
| Sum of PCB Congeners | 0.00019 | 0.00019 | 0.00000087 | 0.000036 | 0.00000089 |
| Total Avian PCB TEQ | 0.00000018 | 0.00000027 | 0.0000000012 | 0.0000000027 | 0.00000000068 |
| Total Mammalian PCB TEQ | 0.000000019 | 0.000000024 | 0.00000000011 | 0.00000000057 | 0.000000000028 |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | A-Series Pond | | | | |
|---|------------------------------------|------------------------|-------------|--|------------------------------|
| | Soil (mg/kg, dw) (0-0.5 ft bgs) | Plants (0-5 ft bgs) | (mg/kg, dw) | Terrestrial Invertebrates (mg/kg, dw) | Small Mammals (mg/kg, dw) |
| Pesticides | | | | | |
| 4,4'-DDE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4,4'-DDT | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Hexachlorobenzene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methoxychlor | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Bis(2-ethylhexyl)phthalate | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Diethylphthalate | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1,1-Trichloroethane | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,1-Dichloroethane | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,1-Dichloroethylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,2-Dichloroethene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Acetone | No Data | No Data | No Data | No Data | No Data |
| Acetonitrile | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Acrolein | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Carbon disulfide | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Isopropanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methyl ethyl ketone | No Data | No Data | No Data | No Data | No Data |
| Methylene chloride | 0.0026 | 0.030 | 0.0 | 0.0 | 0.0 |
| Propanal | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tert-Butyl alcohol (TBA) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tetrachloroethylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tetrahydrofuran | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Toluene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Trichloroethylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | A-Series Pond | | | | |
|--|------------------------------------|------------------------|--|------------------------------|-----|
| | Soil (mg/kg, dw) (0-0.5 ft bgs) | Plants (0-5 ft bgs) | Terrestrial Invertebrates (mg/kg, dw) | Small Mammals (mg/kg, dw) | |
| | | | | | |
| Exposure Unit CPEC | | | | | |
| Herbicides | | | | | |
| 2,4,5-TP (Silvex) | NAC | NAC | NAC | NAC | NAC |
| 2-sec-Butyl-4,6-dinitrophenol (Dinoseb) | NAC | NAC | NAC | NAC | NAC |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthylene | NAC | NAC | NAC | NAC | NAC |
| Pesticides | | | | | |
| 4,4'-DDD | NAC | NAC | NAC | NAC | NAC |
| Aldrin | NAC | NAC | NAC | NAC | NAC |
| alpha-BHC | NAC | NAC | NAC | NAC | NAC |
| Chlordane, gamma | NAC | NAC | NAC | NAC | NAC |
| delta-BHC | NAC | NAC | NAC | NAC | NAC |
| Dieldrin | NAC | NAC | NAC | NAC | NAC |
| Endosulfan I | NAC | NAC | NAC | NAC | NAC |
| Endrin | NAC | NAC | NAC | NAC | NAC |
| Heptachlor epoxide | NAC | NAC | NAC | NAC | NAC |
| Mirex | NAC | NAC | NAC | NAC | NAC |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Benzoic Acid | NAC | NAC | NAC | NAC | NAC |
| Di-n-butylphthalate | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosodimethylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosodipropylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosomethylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosopyrrolidine | NAC | NAC | NAC | NAC | NAC |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | RCF Pond | | | | |
|--|------------------|--------------|--------------|---------------------------|---------------|
| | Soil (mg/kg, dw) | | Plants | Terrestrial Invertebrates | Small Mammals |
| | (0-0.5 ft bgs) | (0-5 ft bgs) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) |
| Inorganics^a | | | | | |
| Barium | 750 | 1300 | 203 | 68 | 1.5 |
| Beryllium | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Cadmium | 3.8 | 3.8 | 1.3 | 24 | 0.53 |
| Chromium | 42 | 49 | 2.0 | 13 | 3.6 |
| Cobalt | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Copper | 29 | 31 | 7.5 | 15 | 13 |
| Total Cyanide | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Lead | 9.5 | 12 | 1.1 | 4.9 | 2.9 |
| Manganese | 340 | 340 | 27 | 24 | 7.0 |
| Mercury | 0.050 | 0.050 | 0.075 | 0.34 | 0.0027 |
| Molybdenum | 6.3 | 6.3 | 28 | 1.1 | 8.3 |
| Nickel | 59 | 59 | 2.3 | -- | 5.2 |
| Selenium | 2.7 | 2.7 | 1.5 | 1.9 | 0.96 |
| Thallium | 0.29 | 0.42 | 0.0017 | 0.074 | 0.032 |
| Tin | 40 | 59 | 12 | 6.7 | 0.59 |
| Vanadium | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Zinc | 80 | 83 | 56 | 360 | 107 |
| Dioxins/Furans | | | | | |
| Total Avian Dioxin TEQ | 0.00000038 | 0.00000038 | 0.0000000021 | 0.00000089 | 0.00000020 |
| Total Mammalian Dioxin TEQ | 0.00000022 | 0.00000022 | 0.0000000012 | 0.00000045 | 0.00000011 |
| Total Avian TEQ | No Data | No Data | No Data | No Data | No Data |
| Total Mammalian TEQ | No Data | No Data | No Data | No Data | No Data |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.10 | 0.10 | 0.0 | 0.0 | 0.0 |
| Dalapon | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MCPA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MCPP | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Anthracene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(a)anthracene | 0.0 | 0.0088 | 0.0040 | 0.0 | 0.0 |
| Benzo(a)pyrene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(b)fluoranthene | 0.0 | 0.0086 | 0.0027 | 0.0 | 0.0 |
| Benzo(g,h,i)perylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(k)fluoranthene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Chrysene | 0.011 | 0.026 | 0.0076 | 0.025 | 0.0 |
| Fluoranthene | 0.0 | 0.012 | 0.0060 | 0.0 | 0.0 |
| Fluorene | 0.0027 | 0.0027 | 0.61 | 0.026 | 0.0 |
| Indeno(1,2,3-c,d)pyrene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Naphthalene | 0.0 | 0.0080 | 0.098 | 0.0 | 0.0 |
| Pyrene | 0.017 | 0.032 | 0.023 | 0.030 | 0.0 |
| Total LMW PAH | No Data | No Data | No Data | No Data | No Data |
| Total HMW PAH | No Data | No Data | No Data | No Data | No Data |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.099 | 0.13 | 0.00059 | 0.18 | 0.0044 |
| Sum of PCB Congeners | 0.16 | 0.16 | 0.00074 | 0.35 | 0.0087 |
| Total Avian PCB TEQ | 0.00011 | 0.00011 | 0.00000050 | 0.000017 | 0.00000041 |
| Total Mammalian PCB TEQ | 0.000012 | 0.000012 | 0.00000053 | 0.00000079 | 0.00000020 |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | RCF Pond | | | | |
|---|------------------------------------|------------------------|--|------------------------------|-------|
| | Soil (mg/kg, dw) (0-0.5 ft bgs) | Plants (0-5 ft bgs) | Terrestrial Invertebrates (mg/kg, dw) | Small Mammals (mg/kg, dw) | |
| Pesticides | | | | | |
| 4,4'-DDE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4,4'-DDT | 0.0081 | 0.0081 | 0.0022 | 0.13 | 0.73 |
| Hexachlorobenzene | 0.00095 | 0.0017 | 0.00072 | 0.018 | 0.021 |
| Methoxychlor | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Bis(2-ethylhexyl)phthalate | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Diethylphthalate | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1,1-Trichloroethane | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,1-Dichloroethane | 0.012 | 0.026 | 0.0 | 0.0 | 0.0 |
| 1,1-Dichloroethylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,2-Dichloroethene | 0.0 | 0.0057 | 0.0 | 0.0 | 0.0 |
| Acetone | 0.065 | 0.065 | 0.0 | 0.0 | 0.0 |
| Acetonitrile | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Acrolein | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzene | 0.0 | 0.0052 | 0.0 | 0.0 | 0.0 |
| Carbon disulfide | 0.052 | 0.052 | 0.0 | 0.0 | 0.0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0 | 0.012 | 0.0 | 0.0 | 0.0 |
| Isopropanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methyl ethyl ketone | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methylene chloride | 0.0029 | 0.012 | 0.0 | 0.0 | 0.0 |
| Propanal | 0.0 | 0.035 | 0.0 | 0.0 | 0.0 |
| Tert-Butyl alcohol (TBA) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tetrachloroethylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tetrahydrofuran | 0.0 | 0.030 | 0.0 | 0.0 | 0.0 |
| Toluene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Trichloroethylene | 0.0 | 0.0087 | 0.0 | 0.0 | 0.0 |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | RCF Pond | | | | |
|--|------------------------------------|------------------------|--|------------------------------|-----|
| | Soil (mg/kg, dw) (0-0.5 ft bgs) | Plants (0-5 ft bgs) | Terrestrial Invertebrates (mg/kg, dw) | Small Mammals (mg/kg, dw) | |
| | | | | | |
| Exposure Unit CPEC | | | | | |
| Herbicides | | | | | |
| 2,4,5-TP (Silvex) | NAC | NAC | NAC | NAC | NAC |
| 2-sec-Butyl-4,6-dinitrophenol (Dinoseb) | NAC | NAC | NAC | NAC | NAC |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthylene | NAC | NAC | NAC | NAC | NAC |
| Pesticides | | | | | |
| 4,4'-DDD | NAC | NAC | NAC | NAC | NAC |
| Aldrin | NAC | NAC | NAC | NAC | NAC |
| alpha-BHC | NAC | NAC | NAC | NAC | NAC |
| Chlordane, gamma | NAC | NAC | NAC | NAC | NAC |
| delta-BHC | NAC | NAC | NAC | NAC | NAC |
| Dieldrin | NAC | NAC | NAC | NAC | NAC |
| Endosulfan I | NAC | NAC | NAC | NAC | NAC |
| Endrin | NAC | NAC | NAC | NAC | NAC |
| Heptachlor epoxide | NAC | NAC | NAC | NAC | NAC |
| Mirex | NAC | NAC | NAC | NAC | NAC |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Benzoic Acid | NAC | NAC | NAC | NAC | NAC |
| Di-n-butylphthalate | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosodimethylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosodipropylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosomethylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosopyrrolidine | NAC | NAC | NAC | NAC | NAC |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Pond A-5 | | | | |
|--|------------------|--------------|--------------|---------------------------|---------------|
| | Soil (mg/kg, dw) | | Plants | Terrestrial Invertebrates | Small Mammals |
| | (0-0.5 ft bgs) | (0-5 ft bgs) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) |
| Inorganics^a | | | | | |
| Barium | 4400 | 4400 | 686 | 400 | 5.1 |
| Beryllium | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Cadmium | 26 | 26 | 3.7 | 110 | 1.3 |
| Chromium | 76 | 76 | 3.1 | 23 | 5.6 |
| Cobalt | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Copper | 56 | 56 | 9.5 | 29 | 14 |
| Total Cyanide | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Lead | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manganese | 430 | 1500 | 119 | 28 | 8.8 |
| Mercury | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Molybdenum | 15 | 15 | 66 | 2.5 | 20 |
| Nickel | 180 | 180 | 5.3 | -- | 8.8 |
| Selenium | 7.0 | 7.0 | 4.4 | 3.9 | 1.4 |
| Thallium | 0.0 | 0.79 | 0.0032 | 0.0 | 0.0 |
| Tin | 0.0 | 49 | 9.8 | 0.0 | 0.0 |
| Vanadium | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Zinc | 110 | 110 | 65 | 400 | 109 |
| Dioxins/Furans | | | | | |
| Total Avian Dioxin TEQ | 0.000000043 | 0.000000043 | 0.0000000024 | 0.000000068 | 0.000000018 |
| Total Mammalian Dioxin TEQ | 0.000000096 | 0.000000096 | 0.0000000054 | 0.00000017 | 0.000000043 |
| Total Avian TEQ | No Data | No Data | No Data | No Data | No Data |
| Total Mammalian TEQ | No Data | No Data | No Data | No Data | No Data |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Dalapon | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MCPA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MCPP | 2.0 | 2.0 | 0.0 | 0.0 | 0.0 |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Anthracene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(a)anthracene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(a)pyrene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(b)fluoranthene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(g,h,i)perylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(k)fluoranthene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Chrysene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fluoranthene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fluorene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Indeno(1,2,3-c,d)pyrene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Naphthalene | 0.0090 | 0.0090 | 0.11 | 0.040 | 0.0 |
| Pyrene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total LMW PAH | No Data | No Data | No Data | No Data | No Data |
| Total HMW PAH | No Data | No Data | No Data | No Data | No Data |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Sum of PCB Congeners | 0.0045 | 0.0045 | 0.000020 | 0.0026 | 0.000065 |
| Total Avian PCB TEQ | 0.0000065 | 0.0000065 | 0.00000029 | 0.00000036 | 0.000000089 |
| Total Mammalian PCB TEQ | 0.0000090 | 0.0000090 | 0.00000041 | 0.00000024 | 0.000000060 |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Pond A-5 | | | | |
|---|------------------------------------|------------------------|-------------|--|------------------------------|
| | Soil (mg/kg, dw) (0-0.5 ft bgs) | Plants (0-5 ft bgs) | (mg/kg, dw) | Terrestrial Invertebrates (mg/kg, dw) | Small Mammals (mg/kg, dw) |
| Pesticides | | | | | |
| 4,4'-DDE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4,4'-DDT | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Hexachlorobenzene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methoxychlor | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Bis(2-ethylhexyl)phthalate | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Diethylphthalate | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1,1-Trichloroethane | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,1-Dichloroethane | 0.052 | 0.052 | 0.0 | 0.0 | 0.0 |
| 1,1-Dichloroethylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,2-Dichloroethene | 0.0058 | 0.0058 | 0.0 | 0.0 | 0.0 |
| Acetone | No Data | No Data | No Data | No Data | No Data |
| Acetonitrile | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Acrolein | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzene | 0.027 | 0.027 | 0.0 | 0.0 | 0.0 |
| Carbon disulfide | 0.054 | 0.054 | 0.0 | 0.0 | 0.0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0 | 0.014 | 0.0 | 0.0 | 0.0 |
| Isopropanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methyl ethyl ketone | No Data | No Data | No Data | No Data | No Data |
| Methylene chloride | 0.014 | 0.014 | 0.0 | 0.0 | 0.0 |
| Propanal | 0.0 | 0.018 | 0.0 | 0.0 | 0.0 |
| Tert-Butyl alcohol (TBA) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tetrachloroethylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tetrahydrofuran | 0.0042 | 0.0042 | 0.0 | 0.0 | 0.0 |
| Toluene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Trichloroethylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Pond A-5 | | | | |
|--|------------------------------------|------------------------|--|------------------------------|-----|
| | Soil (mg/kg, dw) (0-0.5 ft bgs) | Plants (0-5 ft bgs) | Terrestrial Invertebrates (mg/kg, dw) | Small Mammals (mg/kg, dw) | |
| | | | | | |
| Exposure Unit CPEC | | | | | |
| Herbicides | | | | | |
| 2,4,5-TP (Silvex) | NAC | NAC | NAC | NAC | NAC |
| 2-sec-Butyl-4,6-dinitrophenol (Dinoseb) | NAC | NAC | NAC | NAC | NAC |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthylene | NAC | NAC | NAC | NAC | NAC |
| Pesticides | | | | | |
| 4,4'-DDD | NAC | NAC | NAC | NAC | NAC |
| Aldrin | NAC | NAC | NAC | NAC | NAC |
| alpha-BHC | NAC | NAC | NAC | NAC | NAC |
| Chlordane, gamma | NAC | NAC | NAC | NAC | NAC |
| delta-BHC | NAC | NAC | NAC | NAC | NAC |
| Dieldrin | NAC | NAC | NAC | NAC | NAC |
| Endosulfan I | NAC | NAC | NAC | NAC | NAC |
| Endrin | NAC | NAC | NAC | NAC | NAC |
| Heptachlor epoxide | NAC | NAC | NAC | NAC | NAC |
| Mirex | NAC | NAC | NAC | NAC | NAC |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Benzoic Acid | NAC | NAC | NAC | NAC | NAC |
| Di-n-butylphthalate | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosodimethylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosodipropylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosomethylalkylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosopyrrolidine | NAC | NAC | NAC | NAC | NAC |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Pond 13 | | | | |
|--|------------------|--------------|--------------|---------------------------|---------------|
| | Soil (mg/kg, dw) | | Plants | Terrestrial Invertebrates | Small Mammals |
| | (0-0.5 ft bgs) | (0-5 ft bgs) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) |
| Inorganics^a | | | | | |
| Barium | 85 | 95 | 15 | 7.7 | 0.11 |
| Beryllium | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Cadmium | 4.8 | 4.8 | 1.5 | 29 | 0.60 |
| Chromium | 27 | 54 | 2.2 | 8.3 | 2.6 |
| Cobalt | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Copper | 20 | 20 | 6.3 | 10 | 12 |
| Total Cyanide | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Lead | 8.6 | 8.6 | 0.89 | 4.6 | 2.8 |
| Manganese | 180 | 180 | 14 | 15 | 3.7 |
| Mercury | 0.050 | 0.050 | 0.075 | 0.34 | 0.0027 |
| Molybdenum | 0.0 | 2.4 | 11 | 0.0 | 0.0 |
| Nickel | 86 | 86 | 3.0 | -- | 6.2 |
| Selenium | 3.1 | 16 | 11 | 2.1 | 1.0 |
| Thallium | 0.0 | 0.34 | 0.0014 | 0.0 | 0.0 |
| Tin | 69 | 69 | 14 | 12 | 0.69 |
| Vanadium | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Zinc | 72 | 72 | 52 | 348 | 106 |
| Dioxins/Furans | | | | | |
| Total Avian Dioxin TEQ | 0.0000000088 | 0.000000041 | 0.0000000023 | 0.000000010 | 0.0000000032 |
| Total Mammalian Dioxin TEQ | 0.000000024 | 0.00000011 | 0.0000000062 | 0.000000033 | 0.000000094 |
| Total Avian TEQ | No Data | No Data | No Data | No Data | No Data |
| Total Mammalian TEQ | No Data | No Data | No Data | No Data | No Data |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Dalapon | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MCPA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MCPP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Anthracene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(a)anthracene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(a)pyrene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(b)fluoranthene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(g,h,i)perylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(k)fluoranthene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Chrysene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fluoranthene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fluorene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Indeno(1,2,3-c,d)pyrene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Naphthalene | 0.017 | 0.017 | 0.21 | 0.075 | 0.0 |
| Pyrene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total LMW PAH | No Data | No Data | No Data | No Data | No Data |
| Total HMW PAH | No Data | No Data | No Data | No Data | No Data |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.0 | 0.025 | 0.00011 | 0.0 | 0.0 |
| Sum of PCB Congeners | 0.0035 | 0.0035 | 0.000016 | 0.0019 | 0.000046 |
| Total Avian PCB TEQ | 0.0000035 | 0.0000035 | 0.000000016 | 0.000000015 | 0.0000000038 |
| Total Mammalian PCB TEQ | 0.0000051 | 0.0000051 | 0.000000023 | 0.000000011 | 0.0000000028 |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Pond 13 | | | | |
|---|------------------|--------------|-------------|---------------------------|---------------|
| | Soil (mg/kg, dw) | | Plants | Terrestrial Invertebrates | Small Mammals |
| | (0-0.5 ft bgs) | (0-5 ft bgs) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) |
| Pesticides | | | | | |
| 4,4'-DDE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4,4'-DDT | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Hexachlorobenzene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methoxychlor | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Bis(2-ethylhexyl)phthalate | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Diethylphthalate | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1,1-Trichloroethane | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,1-Dichloroethane | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,1-Dichloroethylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,2-Dichloroethene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Acetone | No Data | No Data | No Data | No Data | No Data |
| Acetonitrile | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Acrolein | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Carbon disulfide | 0.15 | 0.15 | 0.0 | 0.0 | 0.0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Isopropanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methyl ethyl ketone | No Data | No Data | No Data | No Data | No Data |
| Methylene chloride | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Propanal | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tert-Butyl alcohol (TBA) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tetrachloroethylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tetrahydrofuran | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Toluene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Trichloroethylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Pond 13 | | | | |
|--|------------------------------------|------------------------|--|------------------------------|-----|
| | Soil (mg/kg, dw) (0-0.5 ft bgs) | Plants (0-5 ft bgs) | Terrestrial Invertebrates (mg/kg, dw) | Small Mammals (mg/kg, dw) | |
| | | | | | |
| Exposure Unit CPEC | | | | | |
| Herbicides | | | | | |
| 2,4,5-TP (Silvex) | NAC | NAC | NAC | NAC | NAC |
| 2-sec-Butyl-4,6-dinitrophenol (Dinoseb) | NAC | NAC | NAC | NAC | NAC |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthylene | NAC | NAC | NAC | NAC | NAC |
| Pesticides | | | | | |
| 4,4'-DDD | NAC | NAC | NAC | NAC | NAC |
| Aldrin | NAC | NAC | NAC | NAC | NAC |
| alpha-BHC | NAC | NAC | NAC | NAC | NAC |
| Chlordane, gamma | NAC | NAC | NAC | NAC | NAC |
| delta-BHC | NAC | NAC | NAC | NAC | NAC |
| Dieldrin | NAC | NAC | NAC | NAC | NAC |
| Endosulfan I | NAC | NAC | NAC | NAC | NAC |
| Endrin | NAC | NAC | NAC | NAC | NAC |
| Heptachlor epoxide | NAC | NAC | NAC | NAC | NAC |
| Mirex | NAC | NAC | NAC | NAC | NAC |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Benzoic Acid | NAC | NAC | NAC | NAC | NAC |
| Di-n-butylphthalate | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosodimethylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosodipropylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosomethylalkylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosopyrrolidine | NAC | NAC | NAC | NAC | NAC |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Pond 18 | | | | |
|--|------------------|--------------|-------------|---------------------------|---------------|
| | Soil (mg/kg, dw) | | Plants | Terrestrial Invertebrates | Small Mammals |
| | (0-0.5 ft bgs) | (0-5 ft bgs) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) |
| Inorganics^a | | | | | |
| Barium | 200 | 200 | 31 | 18 | 0.23 |
| Beryllium | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Cadmium | 8.1 | 8.1 | 1.9 | 44 | 0.76 |
| Chromium | 55 | 55 | 2.3 | 17 | 4.4 |
| Cobalt | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Copper | 55 | 55 | 9.5 | 28 | 14 |
| Total Cyanide | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Lead | 12 | 12 | 1.1 | 6.0 | 3.2 |
| Manganese | 130 | 240 | 19 | 12 | 2.7 |
| Mercury | 0.048 | 0.048 | 0.073 | 0.33 | 0.0026 |
| Molybdenum | 11 | 11 | 49 | 1.8 | 15 |
| Nickel | 120 | 120 | 3.9 | -- | 7.3 |
| Selenium | 15 | 15 | 10 | 6.8 | 1.8 |
| Thallium | 0.67 | 0.67 | 0.0027 | 0.17 | 0.075 |
| Tin | 62 | 62 | 12 | 10 | 0.62 |
| Vanadium | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Zinc | 90 | 94 | 60 | 374 | 108 |
| Dioxins/Furans | | | | | |
| Total Avian Dioxin TEQ | 0.0000011 | 0.0000011 | 0.000000060 | 0.0000030 | 0.00000061 |
| Total Mammalian Dioxin TEQ | 0.0000015 | 0.0000015 | 0.000000084 | 0.0000045 | 0.00000089 |
| Total Avian TEQ | No Data | No Data | No Data | No Data | No Data |
| Total Mammalian TEQ | No Data | No Data | No Data | No Data | No Data |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.045 | 0.045 | 0.0 | 0.0 | 0.0 |
| Dalapon | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MCPA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MCPP | 3.1 | 3.1 | 0.0 | 0.0 | 0.0 |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Anthracene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(a)anthracene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(a)pyrene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(b)fluoranthene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(g,h,i)perylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(k)fluoranthene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Chrysene | 0.0024 | 0.0024 | 0.0018 | 0.0055 | 0.0 |
| Fluoranthene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fluorene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Indeno(1,2,3-c,d)pyrene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Naphthalene | 0.0069 | 0.0069 | 0.084 | 0.030 | 0.0 |
| Pyrene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total LMW PAH | No Data | No Data | No Data | No Data | No Data |
| Total HMW PAH | No Data | No Data | No Data | No Data | No Data |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Sum of PCB Congeners | 0.0031 | 0.0031 | 0.000014 | 0.0016 | 0.000039 |
| Total Avian PCB TEQ | 0.0000049 | 0.0000049 | 0.00000022 | 0.00000025 | 0.000000061 |
| Total Mammalian PCB TEQ | 0.0000075 | 0.0000075 | 0.00000034 | 0.00000019 | 0.000000047 |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Pond 18 | | | | |
|---|------------------|--------------|-------------|---------------------------|---------------|
| | Soil (mg/kg, dw) | | Plants | Terrestrial Invertebrates | Small Mammals |
| | (0-0.5 ft bgs) | (0-5 ft bgs) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) |
| Pesticides | | | | | |
| 4,4'-DDE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4,4'-DDT | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Hexachlorobenzene | 0.0 | 0.0013 | 0.00055 | 0.0 | 0.0 |
| Methoxychlor | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Bis(2-ethylhexyl)phthalate | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Diethylphthalate | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1,1-Trichloroethane | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,1-Dichloroethane | 0.0 | 0.0020 | 0.0 | 0.0 | 0.0 |
| 1,1-Dichloroethylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,2-Dichloroethene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Acetone | No Data | No Data | No Data | No Data | No Data |
| Acetonitrile | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Acrolein | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Carbon disulfide | 0.031 | 0.031 | 0.0 | 0.0 | 0.0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0 | 0.0070 | 0.0 | 0.0 | 0.0 |
| Isopropanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methyl ethyl ketone | No Data | No Data | No Data | No Data | No Data |
| Methylene chloride | 0.0060 | 0.0060 | 0.0 | 0.0 | 0.0 |
| Propanal | 0.0 | 0.12 | 0.0 | 0.0 | 0.0 |
| Tert-Butyl alcohol (TBA) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tetrachloroethylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tetrahydrofuran | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Toluene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Trichloroethylene | 0.0 | 0.0036 | 0.0 | 0.0 | 0.0 |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Pond 18 | | | | |
|--|------------------------------------|------------------------|--|------------------------------|-----|
| | Soil (mg/kg, dw) (0-0.5 ft bgs) | Plants (0-5 ft bgs) | Terrestrial Invertebrates (mg/kg, dw) | Small Mammals (mg/kg, dw) | |
| | | | | | |
| Exposure Unit CPEC | | | | | |
| Herbicides | | | | | |
| 2,4,5-TP (Silvex) | NAC | NAC | NAC | NAC | NAC |
| 2-sec-Butyl-4,6-dinitrophenol (Dinoseb) | NAC | NAC | NAC | NAC | NAC |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthylene | NAC | NAC | NAC | NAC | NAC |
| Pesticides | | | | | |
| 4,4'-DDD | NAC | NAC | NAC | NAC | NAC |
| Aldrin | NAC | NAC | NAC | NAC | NAC |
| alpha-BHC | NAC | NAC | NAC | NAC | NAC |
| Chlordane, gamma | NAC | NAC | NAC | NAC | NAC |
| delta-BHC | NAC | NAC | NAC | NAC | NAC |
| Dieldrin | NAC | NAC | NAC | NAC | NAC |
| Endosulfan I | NAC | NAC | NAC | NAC | NAC |
| Endrin | NAC | NAC | NAC | NAC | NAC |
| Heptachlor epoxide | NAC | NAC | NAC | NAC | NAC |
| Mirex | NAC | NAC | NAC | NAC | NAC |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Benzoic Acid | NAC | NAC | NAC | NAC | NAC |
| Di-n-butylphthalate | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosodimethylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosodipropylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosomethylalkylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosopyrrolidine | NAC | NAC | NAC | NAC | NAC |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Remaining On-site Areas | | | | |
|--|-------------------------|--------------|-------------|---------------------------|---------------|
| | Soil (mg/kg, dw) | | Plants | Terrestrial Invertebrates | Small Mammals |
| | (0-0.5 ft bgs) | (0-5 ft bgs) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) |
| Inorganics^a | | | | | |
| Barium | 170 | 800 | 125 | 15 | 0.94 |
| Beryllium | 0.84 | 0.84 | 0.51 | 0.038 | 0.026 |
| Cadmium | 3.1 | 3.1 | 1.2 | 20 | 0.49 |
| Chromium | 41 | 130 | 5.3 | 13 | 3.5 |
| Cobalt | 12 | 15 | 0.11 | 1.5 | 0.30 |
| Copper | 21 | 150 | 14 | 11 | 12 |
| Total Cyanide | 0.0 | 0.62 | 0.0 | 0.0 | 0.0 |
| Lead | 37 | 37 | 2.0 | 15 | 5.3 |
| Manganese | 480 | 490 | 39 | 30 | 9.8 |
| Mercury | 0.034 | 0.088 | 0.10 | 0.30 | 0.0018 |
| Molybdenum | 11 | 11 | 49 | 1.8 | 15 |
| Nickel | 62 | 62 | 2.4 | -- | 5.3 |
| Selenium | 1.6 | 3.5 | 2.0 | 1.3 | 0.79 |
| Thallium | 2.1 | 2.8 | 0.011 | 0.54 | 0.24 |
| Tin | 63 | 63 | 13 | 11 | 0.63 |
| Vanadium | 47 | 47 | 0.23 | 2.0 | 0.58 |
| Zinc | 75 | 78 | 54 | 353 | 106 |
| Dioxins/Furans | | | | | |
| Total Avian Dioxin TEQ | 0.0000031 | 0.0000031 | 0.000000017 | 0.000000000000000011 | 0.00010 |
| Total Mammalian Dioxin TEQ | 0.0000026 | 0.0000026 | 0.000000014 | 0.000000000000000059 | 0.000087 |
| Total Avian TEQ | No Data | No Data | No Data | No Data | No Data |
| Total Mammalian TEQ | No Data | No Data | No Data | No Data | No Data |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Dalapon | 0.014 | 0.018 | 0.0 | 0.0 | 0.0 |
| MCPA | 3.9 | 4.9 | 0.0 | 0.0 | 0.0 |
| MCPP | 0.0 | 0.92 | 0.0 | 0.0 | 0.0 |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthene | 0.13 | 0.13 | 0.022 | 0.19 | 0.0 |
| Anthracene | 0.0 | 0.0023 | 0.0033 | 0.0 | 0.0 |
| Benzo(a)anthracene | 0.12 | 0.12 | 0.019 | 0.19 | 0.0 |
| Benzo(a)pyrene | 0.51 | 0.51 | 0.066 | 0.68 | 0.0 |
| Benzo(b)fluoranthene | 0.017 | 0.017 | 0.0053 | 0.044 | 0.0 |
| Benzo(g,h,i)perylene | 0.0076 | 0.0076 | 0.0012 | 0.022 | 0.0 |
| Benzo(k)fluoranthene | 0.55 | 0.55 | 0.069 | 1.4 | 0.0 |
| Chrysene | 0.10 | 0.10 | 0.017 | 0.23 | 0.0 |
| Fluoranthene | 0.017 | 0.017 | 0.0085 | 0.052 | 0.0 |
| Fluorene | 0.034 | 0.034 | 0.069 | 0.33 | 0.0 |
| Indeno(1,2,3-c,d)pyrene | 0.0061 | 0.0061 | 0.00067 | 0.017 | 0.0 |
| Naphthalene | 0.011 | 0.026 | 0.32 | 0.048 | 0.0 |
| Pyrene | 0.48 | 0.48 | 0.35 | 0.84 | 0.0 |
| Total LMW PAH | No Data | No Data | No Data | No Data | No Data |
| Total HMW PAH | No Data | No Data | No Data | No Data | No Data |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 3.7 | 8.0 | 0.036 | 38 | 0.95 |
| Sum of PCB Congeners | 0.012 | 0.082 | 0.00037 | 0.0013 | 0.000033 |
| Total Avian PCB TEQ | 0.0000050 | 0.00016 | 0.00000073 | 0.000000012 | 0.000000018 |
| Total Mammalian PCB TEQ | 0.0000013 | 0.000016 | 0.00000075 | 0.000000010 | 0.000000019 |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Remaining On-site Areas | | | | |
|---|-------------------------|--------------|-------------|---------------------------|---------------|
| | Soil (mg/kg, dw) | | Plants | Terrestrial Invertebrates | Small Mammals |
| | (0-0.5 ft bgs) | (0-5 ft bgs) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) |
| Pesticides | | | | | |
| 4,4'-DDE | 0.031 | 0.031 | 0.0059 | 0.56 | 26 |
| 4,4'-DDT | 0.20 | 0.54 | 0.051 | 2.1 | 5.5 |
| Hexachlorobenzene | 0.0016 | 0.0016 | 0.00068 | 0.030 | 0.035 |
| Methoxychlor | 0.011 | 0.14 | 0.092 | 0.014 | 0.11 |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Bis(2-ethylhexyl)phthalate | 0.26 | 0.26 | 0.0 | 0.52 | 0.0 |
| Diethylphthalate | 0.27 | 0.27 | 0.0 | 0.0 | 0.0 |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1,1-Trichloroethane | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,1-Dichloroethane | 0.0 | 0.0014 | 0.0 | 0.0 | 0.0 |
| 1,1-Dichloroethylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,2-Dichloroethene | 0.0 | 0.17 | 0.0 | 0.0 | 0.0 |
| Acetone | 0.042 | 0.22 | 0.0 | 0.0 | 0.0 |
| Acetonitrile | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Acrolein | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzene | 0.0051 | 0.0051 | 0.0 | 0.0 | 0.0 |
| Carbon disulfide | 0.010 | 0.017 | 0.0 | 0.0 | 0.0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0 | 0.0025 | 0.0 | 0.0 | 0.0 |
| Isopropanol | 0.087 | 0.087 | 0.0 | 0.0 | 0.0 |
| Methyl ethyl ketone | 0.0058 | 0.022 | 0.0 | 0.0 | 0.0 |
| Methylene chloride | 0.0065 | 0.0065 | 0.0 | 0.0 | 0.0 |
| Propanal | 0.036 | 0.36 | 0.0 | 0.0 | 0.0 |
| Tert-Butyl alcohol (TBA) | 0.0 | 0.036 | 0.0 | 0.0 | 0.0 |
| Tetrachloroethylene | 0.0 | 0.074 | 0.0 | 0.0 | 0.0 |
| Tetrahydrofuran | 0.0 | 0.0031 | 0.0 | 0.0 | 0.0 |
| Toluene | 0.00052 | 0.0022 | 0.0 | 0.0 | 0.0 |
| Trichloroethylene | 0.0 | 0.25 | 0.0 | 0.0 | 0.0 |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Remaining On-site Areas | | | | |
|--|-------------------------|--------------|-------------|---------------------------|---------------|
| | Soil (mg/kg, dw) | | Plants | Terrestrial Invertebrates | Small Mammals |
| | (0-0.5 ft bgs) | (0-5 ft bgs) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) |
| Exposure Unit CPEC | | | | | |
| Herbicides | | | | | |
| 2,4,5-TP (Silvex) | NAC | NAC | NAC | NAC | NAC |
| 2-sec-Butyl-4,6-dinitrophenol (Dinoseb) | NAC | NAC | NAC | NAC | NAC |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthylene | NAC | NAC | NAC | NAC | NAC |
| Pesticides | | | | | |
| 4,4'-DDD | 0.012 | 0.038 | 0.0069 | 0.15 | 2.3 |
| Aldrin | NAC | NAC | NAC | NAC | NAC |
| alpha-BHC | 0.041 | 0.041 | 0.071 | 0.26 | 0.31 |
| Chlordane, gamma | NAC | NAC | NAC | NAC | NAC |
| delta-BHC | NAC | NAC | NAC | NAC | NAC |
| Dieldrin | NAC | NAC | NAC | NAC | NAC |
| Endosulfan I | NAC | NAC | NAC | NAC | NAC |
| Endrin | 0.060 | 0.060 | 0.051 | 0.30 | 0.37 |
| Heptachlor epoxide | 0.069 | 0.11 | 0.043 | 2.8 | 3.3 |
| Mirex | NAC | NAC | NAC | NAC | NAC |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Benzoic Acid | NAC | NAC | NAC | NAC | NAC |
| Di-n-butylphthalate | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosodimethylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosodipropylamine | 0.054 | 0.062 | 0.0 | 0.0 | 0.0 |
| N-Nitrosomethylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosopyrrolidine | 1.3 | 1.3 | 0.0 | 0.0 | 0.0 |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Former Ponds and Pads Areas South of the PSCT | | | | |
|--|---|--------------|-------------|---------------------------|---------------|
| | Soil (mg/kg, dw) | | Plants | Terrestrial Invertebrates | Small Mammals |
| | (0-0.5 ft bgs) | (0-5 ft bgs) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) |
| Inorganics^a | | | | | |
| Barium | 3800 | 3800 | 593 | 346 | 4.4 |
| Beryllium | 0.62 | 0.76 | 0.48 | 0.028 | 0.024 |
| Cadmium | 7.0 | 7.0 | 1.8 | 39 | 0.71 |
| Chromium | 160 | 160 | 6.6 | 49 | 9.6 |
| Cobalt | 47 | 55 | 0.41 | 5.7 | 1.8 |
| Copper | 59 | 59 | 9.7 | 30 | 14 |
| Total Cyanide | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Lead | 120 | 120 | 3.9 | 38 | 9.0 |
| Manganese | 1100 | 1300 | 103 | 53 | 23 |
| Mercury | 0.068 | 0.068 | 0.088 | 0.37 | 0.0037 |
| Molybdenum | 11 | 12 | 53 | 1.8 | 16 |
| Nickel | 130 | 130 | 4.1 | -- | 7.5 |
| Selenium | 1.9 | 4.0 | 2.3 | 1.5 | 0.84 |
| Thallium | 1.1 | 1.1 | 0.0044 | 0.28 | 0.12 |
| Tin | 65 | 65 | 13 | 11 | 0.65 |
| Vanadium | 43 | 43 | 0.21 | 1.8 | 0.53 |
| Zinc | 160 | 160 | 80 | 452 | 112 |
| Dioxins/Furans | | | | | |
| Total Avian Dioxin TEQ | 0.0000054 | 0.0000054 | 0.000000030 | 0.000000000000000081 | 0.00016 |
| Total Mammalian Dioxin TEQ | 0.0000045 | 0.0000045 | 0.000000025 | 0.000000000000000043 | 0.00014 |
| Total Avian TEQ | No Data | No Data | No Data | No Data | No Data |
| Total Mammalian TEQ | No Data | No Data | No Data | No Data | No Data |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.0 | 0.089 | 0.0 | 0.0 | 0.0 |
| Dalapon | 0.029 | 0.057 | 0.0 | 0.0 | 0.0 |
| MCPA | 7.0 | 7.0 | 0.0 | 0.0 | 0.0 |
| MCPP | 1.4 | 2.4 | 0.0 | 0.0 | 0.0 |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthene | 0.025 | 0.27 | 0.012 | 0.037 | 0.0 |
| Anthracene | 0.030 | 0.20 | 0.11 | 0.073 | 0.0 |
| Benzo(a)anthracene | 0.037 | 0.13 | 0.020 | 0.059 | 0.0 |
| Benzo(a)pyrene | 0.041 | 0.062 | 0.0085 | 0.055 | 0.0 |
| Benzo(b)fluoranthene | 0.040 | 0.055 | 0.017 | 0.10 | 0.0 |
| Benzo(g,h,i)perylene | 0.21 | 0.21 | 0.062 | 0.62 | 0.0 |
| Benzo(k)fluoranthene | 0.055 | 0.055 | 0.0096 | 0.14 | 0.0 |
| Chrysene | 0.039 | 0.22 | 0.027 | 0.089 | 0.0 |
| Fluoranthene | 0.025 | 0.060 | 0.030 | 0.076 | 0.0 |
| Fluorene | 0.032 | 0.16 | 0.018 | 0.31 | 0.0 |
| Indeno(1,2,3-c,d)pyrene | 0.045 | 0.045 | 0.0050 | 0.13 | 0.0 |
| Naphthalene | 0.022 | 0.025 | 0.31 | 0.097 | 0.0 |
| Pyrene | 0.16 | 0.22 | 0.16 | 0.28 | 0.0 |
| Total LMW PAH | No Data | No Data | No Data | No Data | No Data |
| Total HMW PAH | No Data | No Data | No Data | No Data | No Data |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 1.7 | 1.7 | 0.0077 | 9.4 | 0.24 |
| Sum of PCB Congeners | 2.1 | 2.1 | 0.0094 | 13 | 0.33 |
| Total Avian PCB TEQ | 0.0037 | 0.0037 | 0.000017 | 0.00016 | 0.0000040 |
| Total Mammalian PCB TEQ | 0.00032 | 0.00032 | 0.000015 | 0.0000020 | 0.00000051 |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Former Ponds and Pads Areas South of the PSCT | | | | |
|---|---|--------------|-------------|---------------------------|---------------|
| | Soil (mg/kg, dw) | | Plants | Terrestrial Invertebrates | Small Mammals |
| | (0-0.5 ft bgs) | (0-5 ft bgs) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) |
| Pesticides | | | | | |
| 4,4'-DDE | 0.00061 | 0.013 | 0.0031 | 0.018 | 2.9 |
| 4,4'-DDT | 0.26 | 0.26 | 0.029 | 2.6 | 6.5 |
| Hexachlorobenzene | 0.00071 | 0.0062 | 0.0026 | 0.013 | 0.016 |
| Methoxychlor | 0.025 | 0.025 | 0.017 | 0.031 | 0.037 |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Bis(2-ethylhexyl)phthalate | 0.36 | 0.36 | 0.0 | 0.72 | 0.0 |
| Diethylphthalate | 20 | 20 | 0.0 | 0.0 | 0.0 |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1,1-Trichloroethane | 0.0040 | 0.0040 | 0.0 | 0.0 | 0.0 |
| 1,1-Dichloroethane | 0.0024 | 2.3 | 0.0 | 0.0 | 0.0 |
| 1,1-Dichloroethylene | 0.0030 | 0.020 | 0.0 | 0.0 | 0.0 |
| 1,2-Dichloroethene | 0.11 | 17 | 0.0 | 0.0 | 0.0 |
| Acetone | 0.25 | 0.25 | 0.0 | 0.0 | 0.0 |
| Acetonitrile | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Acrolein | 0.014 | 0.014 | 0.0 | 0.0 | 0.0 |
| Benzene | 0.0023 | 0.084 | 0.0 | 0.0 | 0.0 |
| Carbon disulfide | 0.10 | 0.10 | 0.0 | 0.0 | 0.0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0097 | 0.19 | 0.0 | 0.0 | 0.0 |
| Isopropanol | 0.068 | 0.068 | 0.0 | 0.0 | 0.0 |
| Methyl ethyl ketone | 0.024 | 0.024 | 0.0 | 0.0 | 0.0 |
| Methylene chloride | 0.0024 | 0.0024 | 0.0 | 0.0 | 0.0 |
| Propanal | 0.077 | 0.077 | 0.0 | 0.0 | 0.0 |
| Tert-Butyl alcohol (TBA) | 0.024 | 0.034 | 0.0 | 0.0 | 0.0 |
| Tetrachloroethylene | 0.062 | 560 | 0.0 | 0.0 | 0.0 |
| Tetrahydrofuran | 0.0025 | 0.0069 | 0.0 | 0.0 | 0.0 |
| Toluene | 0.0 | 0.013 | 0.0 | 0.0 | 0.0 |
| Trichloroethylene | 0.074 | 42 | 0.0 | 0.0 | 0.0 |

Table U.A5-15
Terrestrial Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Former Ponds and Pads Areas South of the PSCT | | | | |
|--|---|------------------------|--|------------------------------|-----|
| | Soil (mg/kg, dw) (0-0.5 ft bgs) | Plants (0-5 ft bgs) | Terrestrial Invertebrates (mg/kg, dw) | Small Mammals (mg/kg, dw) | |
| Exposure Unit CPEC | | | | | |
| Herbicides | | | | | |
| 2,4,5-TP (Silvex) | NAC | NAC | NAC | NAC | NAC |
| 2-sec-Butyl-4,6-dinitrophenol (Dinoseb) | NAC | NAC | NAC | NAC | NAC |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| Acenaphthylene | NAC | NAC | NAC | NAC | NAC |
| Pesticides | | | | | |
| 4,4'-DDD | NAC | NAC | NAC | NAC | NAC |
| Aldrin | NAC | NAC | NAC | NAC | NAC |
| alpha-BHC | NAC | NAC | NAC | NAC | NAC |
| Chlordane, gamma | NAC | NAC | NAC | NAC | NAC |
| delta-BHC | NAC | NAC | NAC | NAC | NAC |
| Dieldrin | NAC | NAC | NAC | NAC | NAC |
| Endosulfan I | NAC | NAC | NAC | NAC | NAC |
| Endrin | NAC | NAC | NAC | NAC | NAC |
| Heptachlor epoxide | NAC | NAC | NAC | NAC | NAC |
| Mirex | NAC | NAC | NAC | NAC | NAC |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Benzoic Acid | NAC | NAC | NAC | NAC | NAC |
| Di-n-butylphthalate | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosodimethylamine | 0.067 | 0.067 | 0.0 | 0.0 | 0.0 |
| N-Nitrosodipropylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosomethylalkylamine | NAC | NAC | NAC | NAC | NAC |
| N-Nitrosopyrrolidine | NAC | NAC | NAC | NAC | NAC |

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | A-Series Pond | | | | |
|--|------------------------------------|------------------------|--|------------------------------|----------------|
| | Soil (mg/kg, dw) (0-0.5 ft bgs) | Plants (0-5 ft bgs) | Terrestrial Invertebrates (mg/kg, dw) | Small Mammals (mg/kg, dw) | |
| Inorganics^a | | | | | |
| Antimony | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Arsenic | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Barium | 160 | 160 | 25 | 15 | 0.19 |
| Beryllium | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Cadmium | 21 | 21 | 3.3 | 93 | 1.2 |
| Chromium | 28 | 28 | 1.1 | 8.6 | 2.7 |
| Cobalt | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Copper | 44 | 44 | 8.6 | 22 | 13 |
| Lead | 9.8 | 9.8 | 0.95 | 5.1 | 3.0 |
| Manganese | 280 | 690 | 55 | 21 | 5.7 |
| Mercury | 0.040 | 0.040 | 0.066 | 0.31 | 0.0022 |
| Molybdenum | 21 | 21 | 93 | 3.5 | 28 |
| Nickel | 164 | 164 | 4.9 | -- | 8.4 |
| Selenium | 9.4 | 9.4 | 6.0 | 4.8 | 1.5 |
| Silver | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Thallium | 0.51 | 0.51 | 0.0020 | 0.13 | 0.057 |
| Tin | 47 | 53 | 11 | 7.9 | 0.53 |
| Vanadium | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Zinc | 112 | 112 | 66 | 402 | 110 |
| Dioxins/Furans | | | | | |
| Total Avian Dioxin TEQ | 0.00000035 | 0.00000035 | 0.0000000019 | 0.00000080 | 0.00000018 |
| Total Mammalian Dioxin TEQ | 0.00000030 | 0.00000030 | 0.0000000017 | 0.00000066 | 0.00000015 |
| Total Avian TEQ | No Data | No Data | No Data | No Data | No Data |
| Total Mammalian TEQ | No Data | No Data | No Data | No Data | No Data |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.041 | 0.041 | 0.0 | 0.0 | 0.0 |
| Dichlorprop | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MCPP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| 2-Methylnaphthalene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(a)anthracene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(a)pyrene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(b)fluoranthene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(g,h,i)perylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Chrysene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Dibenzo(a,h)anthracene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fluoranthene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fluorene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Indeno(1,2,3-c,d)pyrene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Naphthalene | 0.0039 | 0.0039 | 0.048 | 0.017 | 0.0 |
| Phenanthrene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Pyrene | 0.0 | 0.0067 | 0.0048 | 0.0 | 0.0 |
| Total LMW PAH | No Data | No Data | No Data | No Data | No Data |
| Total HMW PAH | No Data | No Data | No Data | No Data | No Data |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.0 | 0.024 | 0.00011 | 0.0 | 0.0 |
| Sum of PCB Congeners | 0.00019 | 0.00019 | 0.00000087 | 0.000036 | 0.000000089 |
| Total Avian PCB TEQ | 0.00000018 | 0.00000027 | 0.0000000012 | 0.0000000027 | 0.00000000068 |
| Total Mammalian PCB TEQ | 0.000000019 | 0.000000024 | 0.00000000011 | 0.00000000057 | 0.000000000028 |

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | A-Series Pond | | | | |
|---|------------------------------------|------------------------|--|------------------------------|---------|
| | Soil (mg/kg, dw) (0-0.5 ft bgs) | Plants (0-5 ft bgs) | Terrestrial Invertebrates (mg/kg, dw) | Small Mammals (mg/kg, dw) | |
| Pesticides | | | | | |
| 4,4'-DDD | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4,4'-DDE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4,4'-DDT | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Chlordane, alpha | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Endosulfan I | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Endosulfan II | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Endosulfan sulfate | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Endrin | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Heptachlor | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Hexachlorobenzene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kepone | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Bis(2-chloroethyl)ether | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bis(2-ethylhexyl)phthalate | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| N-Nitrosodiethylamine | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| N-Nitrosodipropylamine | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| N-Nitrosopyrrolidine | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1-Dichloroethane | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,2-Dibromoethane (EDB) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,2-Dichloroethene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Acetone | No Data | No Data | No Data | No Data | No Data |
| Acetonitrile | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Carbon disulfide | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Diisopropyl ether | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ethylbenzene | 0.0 | 0.0033 | 0.0 | 0.0 | 0.0 |
| Ethylene glycol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methyl ethyl ketone | No Data | No Data | No Data | No Data | No Data |
| Methyl isobutyl ketone (MIBK) | No Data | No Data | No Data | No Data | No Data |
| Methylcyclopentane | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methylene chloride | 0.0026 | 0.030 | 0.0 | 0.0 | 0.0 |
| Nonanal | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Propanal | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tetrahydrofuran | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Trichloroethylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | RCF Pond | | | | |
|--|------------------|--------------|--------------|---------------------------|---------------|
| | Soil (mg/kg, dw) | | Plants | Terrestrial Invertebrates | Small Mammals |
| | (0-0.5 ft bgs) | (0-5 ft bgs) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) |
| Inorganics^a | | | | | |
| Antimony | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Arsenic | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Barium | 750 | 1300 | 203 | 68 | 1.5 |
| Beryllium | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Cadmium | 3.8 | 3.8 | 1.3 | 24 | 0.53 |
| Chromium | 42 | 49 | 2.0 | 13 | 3.6 |
| Cobalt | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Copper | 29 | 31 | 7.5 | 15 | 13 |
| Lead | 9.5 | 12 | 1.1 | 4.9 | 2.9 |
| Manganese | 340 | 340 | 27 | 24 | 7.0 |
| Mercury | 0.050 | 0.050 | 0.075 | 0.34 | 0.0027 |
| Molybdenum | 6.3 | 6.3 | 28 | 1.1 | 8.3 |
| Nickel | 59 | 59 | 2.3 | -- | 5.2 |
| Selenium | 2.7 | 2.7 | 1.5 | 1.9 | 0.96 |
| Silver | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Thallium | 0.29 | 0.42 | 0.0017 | 0.074 | 0.032 |
| Tin | 40 | 59 | 12 | 6.7 | 0.59 |
| Vanadium | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Zinc | 80 | 83 | 56 | 360 | 107 |
| Dioxins/Furans | | | | | |
| Total Avian Dioxin TEQ | 0.00000038 | 0.00000038 | 0.0000000021 | 0.00000089 | 0.00000020 |
| Total Mammalian Dioxin TEQ | 0.00000022 | 0.00000022 | 0.0000000012 | 0.00000045 | 0.00000011 |
| Total Avian TEQ | No Data | No Data | No Data | No Data | No Data |
| Total Mammalian TEQ | No Data | No Data | No Data | No Data | No Data |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.10 | 0.10 | 0.0 | 0.0 | 0.0 |
| Dichlorprop | 0.020 | 0.020 | 0.0 | 0.0 | 0.0 |
| MCPP | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| 2-Methylnaphthalene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(a)anthracene | 0.0 | 0.0088 | 0.0040 | 0.0 | 0.0 |
| Benzo(a)pyrene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(b)fluoranthene | 0.0 | 0.0086 | 0.0027 | 0.0 | 0.0 |
| Benzo(g,h,i)perylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Chrysene | 0.011 | 0.026 | 0.0076 | 0.025 | 0.0 |
| Dibenzo(a,h)anthracene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fluoranthene | 0.0 | 0.012 | 0.0060 | 0.0 | 0.0 |
| Fluorene | 0.0027 | 0.0027 | 0.61 | 0.026 | 0.0 |
| Indeno(1,2,3-c,d)pyrene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Naphthalene | 0.0 | 0.0080 | 0.098 | 0.0 | 0.0 |
| Phenanthrene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Pyrene | 0.017 | 0.032 | 0.023 | 0.030 | 0.0 |
| Total LMW PAH | No Data | No Data | No Data | No Data | No Data |
| Total HMW PAH | No Data | No Data | No Data | No Data | No Data |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.099 | 0.13 | 0.00059 | 0.18 | 0.0044 |
| Sum of PCB Congeners | 0.16 | 0.16 | 0.00074 | 0.35 | 0.0087 |
| Total Avian PCB TEQ | 0.00011 | 0.00011 | 0.00000050 | 0.000017 | 0.00000041 |
| Total Mammalian PCB TEQ | 0.000012 | 0.000012 | 0.00000053 | 0.00000079 | 0.000000020 |

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | RCF Pond | | | | |
|---|------------------------------------|------------------------|--|------------------------------|-------|
| | Soil (mg/kg, dw) (0-0.5 ft bgs) | Plants (0-5 ft bgs) | Terrestrial Invertebrates (mg/kg, dw) | Small Mammals (mg/kg, dw) | |
| Pesticides | | | | | |
| 4,4'-DDD | 0.012 | 0.012 | 0.0029 | 0.15 | 11 |
| 4,4'-DDE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4,4'-DDT | 0.0081 | 0.0081 | 0.0022 | 0.13 | 0.73 |
| Chlordane, alpha | 0.0 | 0.0032 | 0.00061 | 0.0 | 0.0 |
| Endosulfan I | 0.0 | 0.0013 | 0.0022 | 0.0 | 0.0 |
| Endosulfan II | 0.0 | 0.0068 | 0.011 | 0.013 | 0.0 |
| Endosulfan sulfate | 0.0089 | 0.0089 | 0.018 | 0.0027 | 0.021 |
| Endrin | 0.0 | 0.0031 | 0.0026 | 0.0 | 0.0 |
| Heptachlor | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Hexachlorobenzene | 0.00095 | 0.0017 | 0.00072 | 0.018 | 0.021 |
| Kepone | 0.0 | 0.0032 | 0.0029 | 0.0 | 0.0 |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Bis(2-chloroethyl)ether | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bis(2-ethylhexyl)phthalate | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| N-Nitrosodiethylamine | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| N-Nitrosodipropylamine | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| N-Nitrosopyrrolidine | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1-Dichloroethane | 0.012 | 0.026 | 0.0 | 0.0 | 0.0 |
| 1,2-Dibromoethane (EDB) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,2-Dichloroethene | 0.0 | 0.0057 | 0.0 | 0.0 | 0.0 |
| Acetone | 0.065 | 0.065 | 0.0 | 0.0 | 0.0 |
| Acetonitrile | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzene | 0.0 | 0.0052 | 0.0 | 0.0 | 0.0 |
| Carbon disulfide | 0.052 | 0.052 | 0.0 | 0.0 | 0.0 |
| Diisopropyl ether | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ethylbenzene | 0.0 | 0.0032 | 0.0 | 0.0 | 0.0 |
| Ethylene glycol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0 | 0.012 | 0.0 | 0.0 | 0.0 |
| Methyl ethyl ketone | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methyl isobutyl ketone (MIBK) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methylcyclopentane | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methylene chloride | 0.0029 | 0.012 | 0.0 | 0.0 | 0.0 |
| Nonanal | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Propanal | 0.0 | 0.035 | 0.0 | 0.0 | 0.0 |
| Tetrahydrofuran | 0.0 | 0.030 | 0.0 | 0.0 | 0.0 |
| Trichloroethylene | 0.0 | 0.0087 | 0.0 | 0.0 | 0.0 |

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Pond A-5 | | | | |
|--|------------------|--------------|--------------|---------------------------|---------------|
| | Soil (mg/kg, dw) | | Plants | Terrestrial Invertebrates | Small Mammals |
| | (0-0.5 ft bgs) | (0-5 ft bgs) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) |
| Inorganics^a | | | | | |
| Antimony | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Arsenic | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Barium | 4400 | 4400 | 686 | 400 | 5.1 |
| Beryllium | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Cadmium | 26 | 26 | 3.7 | 110 | 1.3 |
| Chromium | 76 | 76 | 3.1 | 23 | 5.6 |
| Cobalt | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Copper | 56 | 56 | 9.5 | 29 | 14 |
| Lead | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manganese | 430 | 1500 | 119 | 28 | 8.8 |
| Mercury | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Molybdenum | 15 | 15 | 66 | 2.5 | 20 |
| Nickel | 180 | 180 | 5.3 | -- | 8.8 |
| Selenium | 7.0 | 7.0 | 4.4 | 3.9 | 1.4 |
| Silver | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Thallium | 0.0 | 0.79 | 0.0032 | 0.0 | 0.0 |
| Tin | 0.0 | 49 | 9.8 | 0.0 | 0.0 |
| Vanadium | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Zinc | 110 | 110 | 65 | 400 | 109 |
| Dioxins/Furans | | | | | |
| Total Avian Dioxin TEQ | 0.000000043 | 0.000000043 | 0.0000000024 | 0.000000068 | 0.000000018 |
| Total Mammalian Dioxin TEQ | 0.000000096 | 0.000000096 | 0.0000000054 | 0.00000017 | 0.00000043 |
| Total Avian TEQ | No Data | No Data | No Data | No Data | No Data |
| Total Mammalian TEQ | No Data | No Data | No Data | No Data | No Data |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Dichlorprop | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MCPP | 2.0 | 2.0 | 0.0 | 0.0 | 0.0 |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| 2-Methylnaphthalene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(a)anthracene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(a)pyrene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(b)fluoranthene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(g,h,i)perylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Chrysene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Dibenzo(a,h)anthracene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fluoranthene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fluorene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Indeno(1,2,3-c,d)pyrene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Naphthalene | 0.0090 | 0.0090 | 0.11 | 0.040 | 0.0 |
| Phenanthrene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Pyrene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total LMW PAH | No Data | No Data | No Data | No Data | No Data |
| Total HMW PAH | No Data | No Data | No Data | No Data | No Data |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Sum of PCB Congeners | 0.0045 | 0.0045 | 0.000020 | 0.0026 | 0.000065 |
| Total Avian PCB TEQ | 0.0000065 | 0.0000065 | 0.000000029 | 0.00000036 | 0.000000089 |
| Total Mammalian PCB TEQ | 0.0000090 | 0.0000090 | 0.000000041 | 0.000000024 | 0.000000060 |

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Pond A-5 | | | | |
|---|------------------------------------|------------------------|-------------|--|------------------------------|
| | Soil (mg/kg, dw) (0-0.5 ft bgs) | Plants (0-5 ft bgs) | (mg/kg, dw) | Terrestrial Invertebrates (mg/kg, dw) | Small Mammals (mg/kg, dw) |
| Pesticides | | | | | |
| 4,4'-DDD | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4,4'-DDE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4,4'-DDT | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Chlordane, alpha | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Endosulfan I | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Endosulfan II | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Endosulfan sulfate | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Endrin | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Heptachlor | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Hexachlorobenzene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kepone | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Bis(2-chloroethyl)ether | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bis(2-ethylhexyl)phthalate | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| N-Nitrosodiethylamine | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| N-Nitrosodipropylamine | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| N-Nitrosopyrrolidine | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1-Dichloroethane | 0.052 | 0.052 | 0.0 | 0.0 | 0.0 |
| 1,2-Dibromoethane (EDB) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,2-Dichloroethene | 0.0058 | 0.0058 | 0.0 | 0.0 | 0.0 |
| Acetone | No Data | No Data | No Data | No Data | No Data |
| Acetonitrile | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzene | 0.027 | 0.027 | 0.0 | 0.0 | 0.0 |
| Carbon disulfide | 0.054 | 0.054 | 0.0 | 0.0 | 0.0 |
| Diisopropyl ether | 0.0040 | 0.0040 | 0.0 | 0.0 | 0.0 |
| Ethylbenzene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ethylene glycol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0 | 0.014 | 0.0 | 0.0 | 0.0 |
| Methyl ethyl ketone | No Data | No Data | No Data | No Data | No Data |
| Methyl isobutyl ketone (MIBK) | No Data | No Data | No Data | No Data | No Data |
| Methylcyclopentane | 0.28 | 0.28 | 0.0 | 0.0 | 0.0 |
| Methylene chloride | 0.014 | 0.014 | 0.0 | 0.0 | 0.0 |
| Nonanal | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Propanal | 0.0 | 0.018 | 0.0 | 0.0 | 0.0 |
| Tetrahydrofuran | 0.0042 | 0.0042 | 0.0 | 0.0 | 0.0 |
| Trichloroethylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Pond 13 | | | | |
|--|------------------|--------------|--------------|---------------------------|---------------|
| | Soil (mg/kg, dw) | | Plants | Terrestrial Invertebrates | Small Mammals |
| | (0-0.5 ft bgs) | (0-5 ft bgs) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) |
| Inorganics^a | | | | | |
| Antimony | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Arsenic | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Barium | 85 | 95 | 15 | 7.7 | 0.11 |
| Beryllium | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Cadmium | 4.8 | 4.8 | 1.5 | 29 | 0.60 |
| Chromium | 27 | 54 | 2.2 | 8.3 | 2.6 |
| Cobalt | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Copper | 20 | 20 | 6.3 | 10 | 12 |
| Lead | 8.6 | 8.6 | 0.89 | 4.6 | 2.8 |
| Manganese | 180 | 180 | 14 | 15 | 3.7 |
| Mercury | 0.050 | 0.050 | 0.075 | 0.34 | 0.0027 |
| Molybdenum | 0.0 | 2.4 | 11 | 0.0 | 0.0 |
| Nickel | 86 | 86 | 3.0 | -- | 6.2 |
| Selenium | 3.1 | 16 | 11 | 2.1 | 1.0 |
| Silver | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Thallium | 0.0 | 0.34 | 0.0014 | 0.0 | 0.0 |
| Tin | 69 | 69 | 14 | 12 | 0.69 |
| Vanadium | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Zinc | 72 | 72 | 52 | 348 | 106 |
| Dioxins/Furans | | | | | |
| Total Avian Dioxin TEQ | 0.0000000088 | 0.000000041 | 0.0000000023 | 0.000000010 | 0.0000000032 |
| Total Mammalian Dioxin TEQ | 0.000000024 | 0.00000011 | 0.0000000062 | 0.000000033 | 0.000000094 |
| Total Avian TEQ | No Data | No Data | No Data | No Data | No Data |
| Total Mammalian TEQ | No Data | No Data | No Data | No Data | No Data |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Dichlorprop | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MCPP | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| 2-Methylnaphthalene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(a)anthracene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(a)pyrene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(b)fluoranthene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(g,h,i)perylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Chrysene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Dibenzo(a,h)anthracene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fluoranthene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fluorene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Indeno(1,2,3-c,d)pyrene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Naphthalene | 0.017 | 0.017 | 0.21 | 0.075 | 0.0 |
| Phenanthrene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Pyrene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total LMW PAH | No Data | No Data | No Data | No Data | No Data |
| Total HMW PAH | No Data | No Data | No Data | No Data | No Data |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.0 | 0.025 | 0.00011 | 0.0 | 0.0 |
| Sum of PCB Congeners | 0.0035 | 0.0035 | 0.000016 | 0.0019 | 0.000046 |
| Total Avian PCB TEQ | 0.0000035 | 0.0000035 | 0.000000016 | 0.00000015 | 0.000000038 |
| Total Mammalian PCB TEQ | 0.0000051 | 0.0000051 | 0.000000023 | 0.000000011 | 0.000000028 |

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Pond 13 | | | | |
|---|------------------------------------|------------------------|-------------|--|------------------------------|
| | Soil (mg/kg, dw) (0-0.5 ft bgs) | Plants (0-5 ft bgs) | (mg/kg, dw) | Terrestrial Invertebrates (mg/kg, dw) | Small Mammals (mg/kg, dw) |
| Pesticides | | | | | |
| 4,4'-DDD | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4,4'-DDE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4,4'-DDT | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Chlordane, alpha | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Endosulfan I | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Endosulfan II | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Endosulfan sulfate | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Endrin | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Heptachlor | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Hexachlorobenzene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kepone | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Bis(2-chloroethyl)ether | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bis(2-ethylhexyl)phthalate | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| N-Nitrosodiethylamine | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| N-Nitrosodipropylamine | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| N-Nitrosopyrrolidine | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1-Dichloroethane | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,2-Dibromoethane (EDB) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,2-Dichloroethene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Acetone | No Data | No Data | No Data | No Data | No Data |
| Acetonitrile | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Carbon disulfide | 0.15 | 0.15 | 0.0 | 0.0 | 0.0 |
| Diisopropyl ether | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ethylbenzene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ethylene glycol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methyl ethyl ketone | No Data | No Data | No Data | No Data | No Data |
| Methyl isobutyl ketone (MIBK) | No Data | No Data | No Data | No Data | No Data |
| Methylcyclopentane | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methylene chloride | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Nonanal | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Propanal | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tetrahydrofuran | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Trichloroethylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Pond 18 | | | | |
|--|------------------|--------------|-------------|---------------------------|---------------|
| | Soil (mg/kg, dw) | | Plants | Terrestrial Invertebrates | Small Mammals |
| | (0-0.5 ft bgs) | (0-5 ft bgs) | (mg/kg, dw) | (mg/kg, dw) | (mg/kg, dw) |
| Inorganics^a | | | | | |
| Antimony | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Arsenic | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Barium | 200 | 200 | 31 | 18 | 0.23 |
| Beryllium | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Cadmium | 8.1 | 8.1 | 1.9 | 44 | 0.76 |
| Chromium | 55 | 55 | 2.3 | 17 | 4.4 |
| Cobalt | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Copper | 55 | 55 | 9.5 | 28 | 14 |
| Lead | 12 | 12 | 1.1 | 6.0 | 3.2 |
| Manganese | 130 | 240 | 19 | 12 | 2.7 |
| Mercury | 0.048 | 0.048 | 0.073 | 0.33 | 0.0026 |
| Molybdenum | 11 | 11 | 49 | 1.8 | 15 |
| Nickel | 120 | 120 | 3.9 | -- | 7.3 |
| Selenium | 15 | 15 | 10 | 6.8 | 1.8 |
| Silver | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Thallium | 0.67 | 0.67 | 0.0027 | 0.17 | 0.075 |
| Tin | 62 | 62 | 12 | 10 | 0.62 |
| Vanadium | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Zinc | 90 | 94 | 60 | 374 | 108 |
| Dioxins/Furans | | | | | |
| Total Avian Dioxin TEQ | 0.0000011 | 0.0000011 | 0.000000060 | 0.0000030 | 0.0000061 |
| Total Mammalian Dioxin TEQ | 0.0000015 | 0.0000015 | 0.000000084 | 0.0000045 | 0.0000089 |
| Total Avian TEQ | No Data | No Data | No Data | No Data | No Data |
| Total Mammalian TEQ | No Data | No Data | No Data | No Data | No Data |
| Herbicides | | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.045 | 0.045 | 0.0 | 0.0 | 0.0 |
| Dichlorprop | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MCPP | 3.1 | 3.1 | 0.0 | 0.0 | 0.0 |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | |
| 2-Methylnaphthalene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(a)anthracene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(a)pyrene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(b)fluoranthene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(g,h,i)perylene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Chrysene | 0.0024 | 0.0024 | 0.0018 | 0.0055 | 0.0 |
| Dibenzo(a,h)anthracene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fluoranthene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fluorene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Indeno(1,2,3-c,d)pyrene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Naphthalene | 0.0069 | 0.0069 | 0.084 | 0.030 | 0.0 |
| Phenanthrene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Pyrene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total LMW PAH | No Data | No Data | No Data | No Data | No Data |
| Total HMW PAH | No Data | No Data | No Data | No Data | No Data |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Aroclor 1260 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Sum of PCB Congeners | 0.0031 | 0.0031 | 0.000014 | 0.0016 | 0.000039 |
| Total Avian PCB TEQ | 0.0000049 | 0.0000049 | 0.000000022 | 0.00000025 | 0.000000061 |
| Total Mammalian PCB TEQ | 0.0000075 | 0.0000075 | 0.000000034 | 0.000000019 | 0.000000047 |

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Pond 18 | | | | |
|---|------------------------------------|------------------------|-------------|--|------------------------------|
| | Soil (mg/kg, dw) (0-0.5 ft bgs) | Plants (0-5 ft bgs) | (mg/kg, dw) | Terrestrial Invertebrates (mg/kg, dw) | Small Mammals (mg/kg, dw) |
| Pesticides | | | | | |
| 4,4'-DDD | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4,4'-DDE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4,4'-DDT | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Chlordane, alpha | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Endosulfan I | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Endosulfan II | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Endosulfan sulfate | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Endrin | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Heptachlor | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Hexachlorobenzene | 0.0 | 0.0013 | 0.00055 | 0.0 | 0.0 |
| Kepone | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Bis(2-chloroethyl)ether | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bis(2-ethylhexyl)phthalate | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| N-Nitrosodiethylamine | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| N-Nitrosodipropylamine | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| N-Nitrosopyrrolidine | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Volatile Organic Compounds (VOCs) | | | | | |
| 1,1-Dichloroethane | 0.0 | 0.0020 | 0.0 | 0.0 | 0.0 |
| 1,2-Dibromoethane (EDB) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,2-Dichloroethene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Acetone | No Data | No Data | No Data | No Data | No Data |
| Acetonitrile | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Carbon disulfide | 0.031 | 0.031 | 0.0 | 0.0 | 0.0 |
| Diisopropyl ether | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ethylbenzene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ethylene glycol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0 | 0.0070 | 0.0 | 0.0 | 0.0 |
| Methyl ethyl ketone | No Data | No Data | No Data | No Data | No Data |
| Methyl isobutyl ketone (MIBK) | No Data | No Data | No Data | No Data | No Data |
| Methylcyclopentane | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methylene chloride | 0.0060 | 0.0060 | 0.0 | 0.0 | 0.0 |
| Nonanal | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Propanal | 0.0 | 0.12 | 0.0 | 0.0 | 0.0 |
| Tetrahydrofuran | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Trichloroethylene | 0.0 | 0.0036 | 0.0 | 0.0 | 0.0 |

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | A-Series Pond | | | |
|--|--------------------------------------|-------------------------|---------------------------------|--------------------------------------|
| | Sediment ^b (mg/kg, dw) | Surface Water (mg/L) | Water Column Invert mg/kg dw | Aquatic Invertebrates (mg/kg, dw) |
| Inorganics^a | | | | |
| Antimony | 0.0 | 0.00048 | 0.033 | 0.0 |
| Arsenic | 0.0 | 0.21 | 101 | 0.0 |
| Barium | 160 | 0.041 | 133 | 190 |
| Beryllium | 0.0 | 0.00051 | 0.0041 | 0.0 |
| Cadmium | 21 | 0.0 | 3.3 | 64 |
| Chromium | 28 | 0.032 | 429 | 13 |
| Cobalt | 0.0 | 0.0 | 0.0 | 0.0 |
| Copper | 44 | 0.030 | 108 | 35 |
| Lead | 9.8 | 0.00019 | 0.0 | 0.64 |
| Manganese | 280 | 0.32 | 10262 | 332 |
| Mercury | 0.040 | 0.00012 | 20 | 0.045 |
| Molybdenum | 21 | 0.044 | 813 | 25 |
| Nickel | 164 | 0.44 | 59 | 13 |
| Selenium | 9.4 | 0.90 | 4928 | 11 |
| Silver | 0.0 | 0.0 | 0.0 | 0.0 |
| Thallium | 0.51 | 0.0 | 0.0 | 0.60 |
| Tin | 47 | 0.0 | 0.0 | 56 |
| Vanadium | 0.0 | 0.11 | 1220 | -- |
| Zinc | 112 | 0.020 | 2136 | 141 |
| Dioxins/Furans | | | | |
| Total Avian Dioxin TEQ | 0.00000035 | 0.0 | 0.0 | 0.00000097 |
| Total Mammalian Dioxin TEQ | 0.00000030 | 0.0 | 0.0 | 0.00000083 |
| Total Avian TEQ | No Data | No Data | No Data | No Data |
| Total Mammalian TEQ | No Data | No Data | No Data | No Data |
| Herbicides | | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.041 | 0.0 | 0.0 | 0.0 |
| Dichlorprop | 0.0 | 0.0 | 0.0 | 0.0 |
| MCPP | 0.0 | 0.0 | 0.0 | 0.0 |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | |
| 2-Methylnaphthalene | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(a)anthracene | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(a)pyrene | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(b)fluoranthene | 0.0 | 0.0 | 0.0 | 0.0 |
| Benzo(g,h,i)perylene | 0.0 | 0.0 | 0.0 | 0.0 |
| Chrysene | 0.0 | 0.0 | 0.0 | 0.0 |
| Dibenzo(a,h)anthracene | 0.0 | 0.0 | 0.0 | -- |
| Fluoranthene | 0.0 | 0.0 | 0.0 | 0.0 |
| Fluorene | 0.0 | 0.0 | 0.0 | 0.0 |
| Indeno(1,2,3-c,d)pyrene | 0.0 | 0.0 | 0.0 | 0.0 |
| Naphthalene | 0.0039 | 0.000013 | 0.0022 | 0.0015 |
| Phenanthrene | 0.0 | 0.0 | 0.0 | 0.0 |
| Pyrene | 0.0 | 0.0 | 0.0 | 0.0 |
| Total LMW PAH | No Data | No Data | No Data | No Data |
| Total HMW PAH | No Data | No Data | No Data | No Data |
| Polychlorinated Biphenyls (PCBs) | | | | |
| Aroclor 1260 | 0.0 | 0.0 | 0.0 | 0.0 |
| Sum of PCB Congeners | 0.00019 | 0.0 | 0.0 | 0.0023 |
| Total Avian PCB TEQ | 0.00000018 | 0.0 | -- | 0.0000022 |
| Total Mammalian PCB TEQ | 0.000000019 | 0.0 | -- | 0.000000024 |

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | A-Series Pond | | | |
|---|--------------------------------------|-------------------------|---------------------------------|--------------------------------------|
| | Sediment ^b (mg/kg, dw) | Surface Water (mg/L) | Water Column Invert mg/kg dw | Aquatic Invertebrates (mg/kg, dw) |
| Pesticides | | | | |
| 4,4'-DDD | 0.0 | 0.0 | 0.0 | 0.0 |
| 4,4'-DDE | 0.0 | 0.0 | 0.0 | 0.0 |
| 4,4'-DDT | 0.0 | 0.0 | 0.0 | 0.0 |
| Chlordane, alpha | 0.0 | 0.0 | 0.0 | 0.0 |
| Endosulfan I | 0.0 | 0.0 | 0.0 | 0.0 |
| Endosulfan II | 0.0 | 0.0 | 0.0 | 0.0 |
| Endosulfan sulfate | 0.0 | 0.0 | 0.0 | 0.0 |
| Endrin | 0.0 | 0.0 | 0.0 | 0.0 |
| Heptachlor | 0.0 | 0.0 | 0.0 | 0.0 |
| Hexachlorobenzene | 0.0 | 0.0 | 0.0 | 0.0 |
| Kepone | 0.0 | 0.0 | 0.0 | 0.0 |
| Semi-Volatile Organic Compounds (SVOCs) | | | | |
| Bis(2-chloroethyl)ether | 0.0 | 0.000020 | 0.000078 | -- |
| Bis(2-ethylhexyl)phthalate | 0.0 | 0.0 | 0.0 | -- |
| N-Nitrosodiethylamine | 0.0 | 0.0 | 0.0 | -- |
| N-Nitrosodipropylamine | 0.0 | 0.0 | 0.0 | -- |
| N-Nitrosopyrrolidine | 0.0 | 0.00036 | 0.000086 | -- |
| Volatile Organic Compounds (VOCs) | | | | |
| 1,1-Dichloroethane | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,2-Dibromoethane (EDB) | 0.0 | 0.000012 | 0.000016 | 0.0 |
| 1,2-Dichloroethene | 0.0 | 0.0 | 0.0 | 0.0 |
| Acetone | No Data | No Data | No Data | No Data |
| Acetonitrile | 0.0 | No Data | 0.0 | 0.0 |
| Benzene | 0.0 | 0.0 | 0.0 | 0.0 |
| Carbon disulfide | 0.0 | 0.0 | 0.0 | 0.0 |
| Diisopropyl ether | 0.0 | 0.0 | 0.0 | 0.0 |
| Ethylbenzene | 0.0 | 0.0 | 0.0 | 0.0 |
| Ethylene glycol | 0.0 | No Data | 0.0 | 0.0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0 | 0.0 | 0.0 | 0.0 |
| Methyl ethyl ketone | No Data | 0.0 | No Data | No Data |
| Methyl isobutyl ketone (MIBK) | No Data | No Data | No Data | No Data |
| Methylcyclopentane | 0.0 | 0.0 | 0.0 | 0.0 |
| Methylene chloride | 0.0026 | 0.0 | 0.0 | 0.0 |
| Nonanal | 0.0 | 0.0 | 0.0 | 0.0 |
| Propanal | 0.0 | 0.0 | 0.0 | 0.0 |
| Tetrahydrofuran | 0.0 | 0.0 | 0.0 | 0.0 |
| Trichloroethylene | 0.0 | 0.0 | 0.0 | 0.0 |

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | RCF Pond | | |
|--|--------------------------------------|-------------------------|--------------------------------------|
| | Sediment ^b (mg/kg, dw) | Surface Water (mg/L) | Aquatic Invertebrates (mg/kg, dw) |
| | | | |
| Inorganics^a | | | |
| Antimony | 0.0 | 0.0 | 0.0 |
| Arsenic | 0.0 | 0.19 | 0.0 |
| Barium | 750 | 0.041 | 890 |
| Beryllium | 0.0 | 0.0 | 0.0 |
| Cadmium | 3.8 | 0.0 | 12 |
| Chromium | 42 | 0.0 | 20 |
| Cobalt | 0.0 | 0.0 | 0.0 |
| Copper | 29 | 0.019 | 31 |
| Lead | 9.5 | 0.0 | 0.63 |
| Manganese | 340 | 0.16 | 403 |
| Mercury | 0.050 | 0.00011 | 0.057 |
| Molybdenum | 6.3 | 0.038 | 7.5 |
| Nickel | 59 | 0.12 | 6.2 |
| Selenium | 2.7 | 0.97 | 3.2 |
| Silver | 0.0 | 0.0 | 0.0 |
| Thallium | 0.29 | 0.0 | 0.34 |
| Tin | 40 | 0.0 | 47 |
| Vanadium | 0.0 | 0.097 | -- |
| Zinc | 80 | 0.069 | 135 |
| Dioxins/Furans | | | |
| Total Avian Dioxin TEQ | 0.00000038 | 0.000000000025 | 0.0000011 |
| Total Mammalian Dioxin TEQ | 0.00000022 | 0.000000000075 | 0.00000060 |
| Total Avian TEQ | No Data | No Data | No Data |
| Total Mammalian TEQ | No Data | No Data | No Data |
| Herbicides | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.10 | 0.0 | 0.0 |
| Dichlorprop | 0.020 | 0.0 | 0.0 |
| MCPP | 1.0 | 0.0 | 0.0 |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | |
| 2-Methylnaphthalene | 0.0 | 0.0 | 0.0 |
| Benzo(a)anthracene | 0.0 | 0.0 | 0.0 |
| Benzo(a)pyrene | 0.0 | 0.000013 | 0.0 |
| Benzo(b)fluoranthene | 0.0 | 0.0 | 0.0 |
| Benzo(g,h,i)perylene | 0.0 | 0.0 | 0.0 |
| Chrysene | 0.011 | 0.0 | 0.0080 |
| Dibenz(a,h)anthracene | 0.0 | 0.0 | -- |
| Fluoranthene | 0.0 | 0.0 | 0.0 |
| Fluorene | 0.0027 | 0.0 | 0.0013 |
| Indeno(1,2,3-c,d)pyrene | 0.0 | 0.0 | 0.0 |
| Naphthalene | 0.0 | 0.000016 | 0.0 |
| Phenanthrene | 0.0 | 0.0 | 0.0 |
| Pyrene | 0.017 | 0.0 | 0.061 |
| Total LMW PAH | No Data | No Data | No Data |
| Total HMW PAH | No Data | No Data | No Data |
| Polychlorinated Biphenyls (PCBs) | | | |
| Aroclor 1260 | 0.099 | 0.0 | 1.2 |
| Sum of PCB Congeners | 0.16 | 0.0 | 2.0 |
| Total Avian PCB TEQ | 0.00011 | 0.0 | 0.0013 |
| Total Mammalian PCB TEQ | 0.000012 | 0.0 | 0.00014 |

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | RCF Pond | | |
|---|--------------------------------------|-------------------------|--------------------------------------|
| | Sediment ^b (mg/kg, dw) | Surface Water (mg/L) | Aquatic Invertebrates (mg/kg, dw) |
| | | | |
| Pesticides | | | |
| 4,4'-DDD | 0.012 | 0.0 | 0.083 |
| 4,4'-DDE | 0.0 | 0.0 | 0.0 |
| 4,4'-DDT | 0.0081 | 0.0 | 0.041 |
| Chlordane, alpha | 0.0 | 0.0 | 0.0 |
| Endosulfan I | 0.0 | 0.0 | 0.0 |
| Endosulfan II | 0.0 | 0.0 | 0.0 |
| Endosulfan sulfate | 0.0089 | 0.0 | 0.034 |
| Endrin | 0.0 | 0.0 | 0.0 |
| Heptachlor | 0.0 | 0.0 | 0.0 |
| Hexachlorobenzene | 0.00095 | 0.0 | 0.018 |
| Kepone | 0.0 | 0.0 | 0.0 |
| Semi-Volatile Organic Compounds (SVOCs) | | | |
| Bis(2-chloroethyl)ether | 0.0 | 0.000018 | -- |
| Bis(2-ethylhexyl)phthalate | 0.0 | 0.0 | -- |
| N-Nitrosodiethylamine | 0.0 | 0.0 | -- |
| N-Nitrosodipropylamine | 0.0 | 0.0 | -- |
| N-Nitrosopyrrolidine | 0.0 | 0.000035 | -- |
| Volatile Organic Compounds (VOCs) | | | |
| 1,1-Dichloroethane | 0.012 | 0.0 | 0.0 |
| 1,2-Dibromoethane (EDB) | 0.0 | 0.0000054 | 0.0 |
| 1,2-Dichloroethene | 0.0 | 0.0 | 0.0 |
| Acetone | 0.065 | No Data | 0.0 |
| Acetonitrile | 0.0 | No Data | 0.0 |
| Benzene | 0.0 | 0.0 | 0.0 |
| Carbon disulfide | 0.052 | 0.0 | 0.0 |
| Diisopropyl ether | 0.0 | 0.0 | 0.0 |
| Ethylbenzene | 0.0 | 0.0 | 0.0 |
| Ethylene glycol | 0.0 | No Data | 0.0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0 | 0.0 | 0.0 |
| Methyl ethyl ketone | 0.0 | 0.0 | 0.0 |
| Methyl isobutyl ketone (MIBK) | 0.0 | No Data | 0.0 |
| Methylcyclopentane | 0.0 | 0.0 | 0.0 |
| Methylene chloride | 0.0029 | 0.0070 | 0.0 |
| Nonanal | 0.0 | 0.0 | 0.0 |
| Propanal | 0.0 | 0.0 | 0.0 |
| Tetrahydrofuran | 0.0 | 0.0 | 0.0 |
| Trichloroethylene | 0.0 | 0.0 | 0.0 |

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Pond A-5 | | |
|--|--------------------------------------|-------------------------|--------------------------------------|
| | Sediment ^b (mg/kg, dw) | Surface Water (mg/L) | Aquatic Invertebrates (mg/kg, dw) |
| | | | |
| Inorganics^a | | | |
| Antimony | 0.0 | 0.00045 | 0.0 |
| Arsenic | 0.0 | 0.33 | 0.0 |
| Barium | 4400 | 0.048 | 5218 |
| Beryllium | 0.0 | 0.0014 | 0.0 |
| Cadmium | 26 | 0.0035 | 80 |
| Chromium | 76 | 0.089 | 36 |
| Cobalt | 0.0 | 0.0 | 0.0 |
| Copper | 56 | 0.029 | 38 |
| Lead | 0.0 | 0.00021 | 0.0 |
| Manganese | 430 | 2.7 | 510 |
| Mercury | 0.0 | 0.00016 | 0.0 |
| Molybdenum | 15 | 0.048 | 18 |
| Nickel | 180 | 0.55 | 13 |
| Selenium | 7.0 | 1.4 | 8.3 |
| Silver | 0.0 | 0.00057 | 0.0 |
| Thallium | 0.0 | 0.0 | 0.0 |
| Tin | 0.0 | 0.0 | 0.0 |
| Vanadium | 0.0 | 0.075 | -- |
| Zinc | 110 | 0.027 | 140 |
| Dioxins/Furans | | | |
| Total Avian Dioxin TEQ | 0.000000043 | 0.000000000072 | 0.00000012 |
| Total Mammalian Dioxin TEQ | 0.000000096 | 0.000000000022 | 0.00000027 |
| Total Avian TEQ | No Data | No Data | No Data |
| Total Mammalian TEQ | No Data | No Data | No Data |
| Herbicides | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.0 | 0.0 | 0.0 |
| Dichlorprop | 0.0 | 0.0 | 0.0 |
| MCPP | 2.0 | 0.0 | 0.0 |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | |
| 2-Methylnaphthalene | 0.0 | 0.0 | 0.0 |
| Benzo(a)anthracene | 0.0 | 0.0 | 0.0 |
| Benzo(a)pyrene | 0.0 | 0.0 | 0.0 |
| Benzo(b)fluoranthene | 0.0 | 0.0 | 0.0 |
| Benzo(g,h,i)perylene | 0.0 | 0.0 | 0.0 |
| Chrysene | 0.0 | 0.0 | 0.0 |
| Dibenz(a,h)anthracene | 0.0 | 0.0 | -- |
| Fluoranthene | 0.0 | 0.0 | 0.0 |
| Fluorene | 0.0 | 0.0 | 0.0 |
| Indeno(1,2,3-c,d)pyrene | 0.0 | 0.0 | 0.0 |
| Naphthalene | 0.0090 | 0.0 | 0.0034 |
| Phenanthrene | 0.0 | 0.0 | 0.0 |
| Pyrene | 0.0 | 0.0 | 0.0 |
| Total LMW PAH | No Data | No Data | No Data |
| Total HMW PAH | No Data | No Data | No Data |
| Polychlorinated Biphenyls (PCBs) | | | |
| Aroclor 1260 | 0.0 | 0.0 | 0.0 |
| Sum of PCB Congeners | 0.0045 | 0.0 | 0.054 |
| Total Avian PCB TEQ | 0.0000065 | 0.0 | 0.000079 |
| Total Mammalian PCB TEQ | 0.0000090 | 0.0 | 0.000011 |

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Pond A-5 | | |
|---|--------------------------------------|-------------------------|--------------------------------------|
| | Sediment ^b (mg/kg, dw) | Surface Water (mg/L) | Aquatic Invertebrates (mg/kg, dw) |
| | | | |
| Pesticides | | | |
| 4,4'-DDD | 0.0 | 0.0 | 0.0 |
| 4,4'-DDE | 0.0 | 0.0 | 0.0 |
| 4,4'-DDT | 0.0 | 0.0 | 0.0 |
| Chlordane, alpha | 0.0 | 0.0 | 0.0 |
| Endosulfan I | 0.0 | 0.0 | 0.0 |
| Endosulfan II | 0.0 | 0.0 | 0.0 |
| Endosulfan sulfate | 0.0 | 0.0 | 0.0 |
| Endrin | 0.0 | 0.0 | 0.0 |
| Heptachlor | 0.0 | 0.0 | 0.0 |
| Hexachlorobenzene | 0.0 | 0.0 | 0.0 |
| Kepone | 0.0 | 0.0 | 0.0 |
| Semi-Volatile Organic Compounds (SVOCs) | | | |
| Bis(2-chloroethyl)ether | 0.0 | 0.0 | -- |
| Bis(2-ethylhexyl)phthalate | 0.0 | 0.051 | -- |
| N-Nitrosodiethylamine | 0.0 | 0.0 | -- |
| N-Nitrosodipropylamine | 0.0 | 0.00049 | -- |
| N-Nitrosopyrrolidine | 0.0 | 0.0015 | -- |
| Volatile Organic Compounds (VOCs) | | | |
| 1,1-Dichloroethane | 0.052 | 0.0013 | 0.0 |
| 1,2-Dibromoethane (EDB) | 0.0 | 0.0000028 | 0.0 |
| 1,2-Dichloroethene | 0.0058 | 0.0 | 0.0 |
| Acetone | No Data | 0.018 | No Data |
| Acetonitrile | 0.0 | No Data | 0.0 |
| Benzene | 0.027 | 0.0 | 0.0 |
| Carbon disulfide | 0.054 | 0.0 | 0.0 |
| Diisopropyl ether | 0.0040 | 0.0 | 0.0 |
| Ethylbenzene | 0.0 | 0.0 | 0.0 |
| Ethylene glycol | 0.0 | No Data | 0.0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0 | 0.0 | 0.0 |
| Methyl ethyl ketone | No Data | 0.0 | No Data |
| Methyl isobutyl ketone (MIBK) | No Data | No Data | No Data |
| Methylcyclopentane | 0.28 | 0.0 | 0.0 |
| Methylene chloride | 0.014 | 0.0 | 0.0 |
| Nonanal | 0.0 | 0.0 | 0.0 |
| Propanal | 0.0 | 0.012 | 0.0 |
| Tetrahydrofuran | 0.0042 | 0.0 | 0.0 |
| Trichloroethylene | 0.0 | 0.0013 | 0.0 |

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Pond 13 | | |
|--|--------------------------------------|-------------------------|--------------------------------------|
| | Sediment ^b (mg/kg, dw) | Surface Water (mg/L) | Aquatic Invertebrates (mg/kg, dw) |
| | | | |
| Inorganics^a | | | |
| Antimony | 0.0 | 0.0 | 0.0 |
| Arsenic | 0.0 | 0.31 | 0.0 |
| Barium | 85 | 0.056 | 101 |
| Beryllium | 0.0 | 0.00023 | 0.0 |
| Cadmium | 4.8 | 0.0 | 15 |
| Chromium | 27 | 0.016 | 13 |
| Cobalt | 0.0 | 0.0 | 0.0 |
| Copper | 20 | 0.024 | 28 |
| Lead | 8.6 | 0.0 | 0.57 |
| Manganese | 180 | 0.53 | 213 |
| Mercury | 0.050 | 0.00012 | 0.057 |
| Molybdenum | 0.0 | 0.038 | 0.0 |
| Nickel | 86 | 0.43 | 8.0 |
| Selenium | 3.1 | 1.6 | 3.7 |
| Silver | 0.0 | 0.00027 | 0.0 |
| Thallium | 0.0 | 0.0 | 0.0 |
| Tin | 69 | 0.0 | 82 |
| Vanadium | 0.0 | 0.12 | -- |
| Zinc | 72 | 0.038 | 133 |
| Dioxins/Furans | | | |
| Total Avian Dioxin TEQ | 0.0000000088 | 0.000000000029 | 0.000000025 |
| Total Mammalian Dioxin TEQ | 0.000000024 | 0.000000000087 | 0.000000067 |
| Total Avian TEQ | No Data | No Data | No Data |
| Total Mammalian TEQ | No Data | No Data | No Data |
| Herbicides | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.0 | 0.0 | 0.0 |
| Dichlorprop | 0.0 | 0.0 | 0.0 |
| MCPP | 0.0 | 0.0 | 0.0 |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | |
| 2-Methylnaphthalene | 0.0 | 0.0 | 0.0 |
| Benzo(a)anthracene | 0.0 | 0.0 | 0.0 |
| Benzo(a)pyrene | 0.0 | 0.000013 | 0.0 |
| Benzo(b)fluoranthene | 0.0 | 0.0 | 0.0 |
| Benzo(g,h,i)perylene | 0.0 | 0.0 | 0.0 |
| Chrysene | 0.0 | 0.0 | 0.0 |
| Dibenz(a,h)anthracene | 0.0 | 0.0 | -- |
| Fluoranthene | 0.0 | 0.0 | 0.0 |
| Fluorene | 0.0 | 0.0 | 0.0 |
| Indeno(1,2,3-c,d)pyrene | 0.0 | 0.0 | 0.0 |
| Naphthalene | 0.017 | 0.000013 | 0.0064 |
| Phenanthrene | 0.0 | 0.0 | 0.0 |
| Pyrene | 0.0 | 0.0 | 0.0 |
| Total LMW PAH | No Data | No Data | No Data |
| Total HMW PAH | No Data | No Data | No Data |
| Polychlorinated Biphenyls (PCBs) | | | |
| Aroclor 1260 | 0.0 | 0.0 | 0.0 |
| Sum of PCB Congeners | 0.0035 | 0.0 | 0.042 |
| Total Avian PCB TEQ | 0.0000035 | 0.0 | 0.000042 |
| Total Mammalian PCB TEQ | 0.0000051 | 0.0 | 0.0000062 |

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Pond 13 | | |
|---|--------------------------------------|-------------------------|--------------------------------------|
| | Sediment ^b (mg/kg, dw) | Surface Water (mg/L) | Aquatic Invertebrates (mg/kg, dw) |
| | | | |
| Pesticides | | | |
| 4,4'-DDD | 0.0 | 0.0 | 0.0 |
| 4,4'-DDE | 0.0 | 0.0 | 0.0 |
| 4,4'-DDT | 0.0 | 0.0 | 0.0 |
| Chlordane, alpha | 0.0 | 0.0 | 0.0 |
| Endosulfan I | 0.0 | 0.0 | 0.0 |
| Endosulfan II | 0.0 | 0.0 | 0.0 |
| Endosulfan sulfate | 0.0 | 0.0 | 0.0 |
| Endrin | 0.0 | 0.0 | 0.0 |
| Heptachlor | 0.0 | 0.0 | 0.0 |
| Hexachlorobenzene | 0.0 | 0.0 | 0.0 |
| Kepone | 0.0 | 0.0 | 0.0 |
| Semi-Volatile Organic Compounds (SVOCs) | | | |
| Bis(2-chloroethyl)ether | 0.0 | 0.0 | -- |
| Bis(2-ethylhexyl)phthalate | 0.0 | 0.0 | -- |
| N-Nitrosodiethylamine | 0.0 | 0.0 | -- |
| N-Nitrosodipropylamine | 0.0 | 0.0 | -- |
| N-Nitrosopyrrolidine | 0.0 | 0.000055 | -- |
| Volatile Organic Compounds (VOCs) | | | |
| 1,1-Dichloroethane | 0.0 | 0.0 | 0.0 |
| 1,2-Dibromoethane (EDB) | 0.0 | 0.0000068 | 0.0 |
| 1,2-Dichloroethene | 0.0 | 0.0 | 0.0 |
| Acetone | No Data | No Data | No Data |
| Acetonitrile | 0.0 | No Data | 0.0 |
| Benzene | 0.0 | 0.0 | 0.0 |
| Carbon disulfide | 0.15 | 0.0 | 0.0 |
| Diisopropyl ether | 0.0 | 0.0 | 0.0 |
| Ethylbenzene | 0.0 | 0.0 | 0.0 |
| Ethylene glycol | 0.0 | No Data | 0.0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0 | 0.0 | 0.0 |
| Methyl ethyl ketone | No Data | 0.0 | No Data |
| Methyl isobutyl ketone (MIBK) | No Data | No Data | No Data |
| Methylcyclopentane | 0.0 | 0.0 | 0.0 |
| Methylene chloride | 0.0 | 0.0015 | 0.0 |
| Nonanal | 0.0 | 0.0 | 0.0 |
| Propanal | 0.0 | 0.0 | 0.0 |
| Tetrahydrofuran | 0.0 | 0.0 | 0.0 |
| Trichloroethylene | 0.0 | 0.0 | 0.0 |

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Pond 18 | | |
|--|--------------------------------------|-------------------------|--------------------------------------|
| | Sediment ^b (mg/kg, dw) | Surface Water (mg/L) | Aquatic Invertebrates (mg/kg, dw) |
| | | | |
| Inorganics^a | | | |
| Antimony | 0.0 | 0.0048 | 0.0 |
| Arsenic | 0.0 | 0.099 | 0.0 |
| Barium | 200 | 0.039 | 237 |
| Beryllium | 0.0 | 0.00071 | 0.0 |
| Cadmium | 8.1 | 0.0011 | 25 |
| Chromium | 55 | 0.041 | 26 |
| Cobalt | 0.0 | 0.0 | 0.0 |
| Copper | 55 | 0.031 | 37 |
| Lead | 12 | 0.00034 | 0.79 |
| Manganese | 130 | 0.33 | 154 |
| Mercury | 0.048 | 0.00014 | 0.055 |
| Molybdenum | 11 | 0.056 | 13 |
| Nickel | 120 | 0.34 | 10 |
| Selenium | 15 | 0.43 | 18 |
| Silver | 0.0 | 0.00024 | 0.0 |
| Thallium | 0.67 | 0.0020 | 0.79 |
| Tin | 62 | 0.0013 | 74 |
| Vanadium | 0.0 | 0.040 | -- |
| Zinc | 90 | 0.025 | 137 |
| Dioxins/Furans | | | |
| Total Avian Dioxin TEQ | 0.0000011 | 0.000000000022 | 0.0000030 |
| Total Mammalian Dioxin TEQ | 0.0000015 | 0.000000000065 | 0.0000042 |
| Total Avian TEQ | No Data | No Data | No Data |
| Total Mammalian TEQ | No Data | No Data | No Data |
| Herbicides | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.045 | 0.0 | 0.0 |
| Dichlorprop | 0.0 | 0.0 | 0.0 |
| MCPP | 3.1 | 0.0 | 0.0 |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | |
| 2-Methylnaphthalene | 0.0 | 0.0 | 0.0 |
| Benzo(a)anthracene | 0.0 | 0.000010 | 0.0 |
| Benzo(a)pyrene | 0.0 | 0.0 | 0.0 |
| Benzo(b)fluoranthene | 0.0 | 0.0 | 0.0 |
| Benzo(g,h,i)perylene | 0.0 | 0.0 | 0.0 |
| Chrysene | 0.0024 | 0.0 | 0.0017 |
| Dibenz(a,h)anthracene | 0.0 | 0.000013 | -- |
| Fluoranthene | 0.0 | 0.0 | 0.0 |
| Fluorene | 0.0 | 0.0 | 0.0 |
| Indeno(1,2,3-c,d)pyrene | 0.0 | 0.0 | 0.0 |
| Naphthalene | 0.0069 | 0.0 | 0.0026 |
| Phenanthrene | 0.0 | 0.0 | 0.0 |
| Pyrene | 0.0 | 0.0 | 0.0 |
| Total LMW PAH | No Data | No Data | No Data |
| Total HMW PAH | No Data | No Data | No Data |
| Polychlorinated Biphenyls (PCBs) | | | |
| Aroclor 1260 | 0.0 | 0.0 | 0.0 |
| Sum of PCB Congeners | 0.0031 | 0.0 | 0.037 |
| Total Avian PCB TEQ | 0.0000049 | 0.0 | 0.000060 |
| Total Mammalian PCB TEQ | 0.0000075 | 0.0 | 0.0000091 |

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Pond 18 | | |
|---|--------------------------------------|-------------------------|--------------------------------------|
| | Sediment ^b (mg/kg, dw) | Surface Water (mg/L) | Aquatic Invertebrates (mg/kg, dw) |
| | | | |
| Pesticides | | | |
| 4,4'-DDD | 0.0 | 0.0 | 0.0 |
| 4,4'-DDE | 0.0 | 0.0 | 0.0 |
| 4,4'-DDT | 0.0 | 0.0 | 0.0 |
| Chlordane, alpha | 0.0 | 0.0 | 0.0 |
| Endosulfan I | 0.0 | 0.0 | 0.0 |
| Endosulfan II | 0.0 | 0.0 | 0.0 |
| Endosulfan sulfate | 0.0 | 0.0 | 0.0 |
| Endrin | 0.0 | 0.0 | 0.0 |
| Heptachlor | 0.0 | 0.0 | 0.0 |
| Hexachlorobenzene | 0.0 | 0.0 | 0.0 |
| Kepone | 0.0 | 0.0 | 0.0 |
| Semi-Volatile Organic Compounds (SVOCs) | | | |
| Bis(2-chloroethyl)ether | 0.0 | 0.0 | -- |
| Bis(2-ethylhexyl)phthalate | 0.0 | 0.0 | -- |
| N-Nitrosodiethylamine | 0.0 | 0.00019 | -- |
| N-Nitrosodipropylamine | 0.0 | 0.0 | -- |
| N-Nitrosopyrrolidine | 0.0 | 0.0 | -- |
| Volatile Organic Compounds (VOCs) | | | |
| 1,1-Dichloroethane | 0.0 | 0.00044 | 0.0 |
| 1,2-Dibromoethane (EDB) | 0.0 | 0.0 | 0.0 |
| 1,2-Dichloroethene | 0.0 | 0.0 | 0.0 |
| Acetone | No Data | No Data | No Data |
| Acetonitrile | 0.0 | No Data | 0.0 |
| Benzene | 0.0 | 0.0 | 0.0 |
| Carbon disulfide | 0.031 | 0.00043 | 0.0 |
| Diisopropyl ether | 0.0 | 0.0 | 0.0 |
| Ethylbenzene | 0.0 | 0.0 | 0.0 |
| Ethylene glycol | 0.0 | No Data | 0.0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0 | 0.0 | 0.0 |
| Methyl ethyl ketone | No Data | 0.0 | No Data |
| Methyl isobutyl ketone (MIBK) | No Data | No Data | No Data |
| Methylcyclopentane | 0.0 | 0.0 | 0.0 |
| Methylene chloride | 0.0060 | 0.00050 | 0.0 |
| Nonanal | 0.0 | 0.0 | 0.0 |
| Propanal | 0.0 | 0.014 | 0.0 |
| Tetrahydrofuran | 0.0 | 0.0 | 0.0 |
| Trichloroethylene | 0.0 | 0.0012 | 0.0 |

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | North Drainage | | |
|--|--------------------------------------|-------------------------|--------------------------------------|
| | Sediment ^b (mg/kg, dw) | Surface Water (mg/L) | Aquatic Invertebrates (mg/kg, dw) |
| | | | |
| Inorganics^a | | | |
| Antimony | 0.0 | 0.15 | 0.0 |
| Arsenic | 0.0 | 0.047 | 0.0 |
| Barium | 98 | 1.1 | 116 |
| Beryllium | 0.0 | 0.0090 | 0.0 |
| Cadmium | 1.8 | 0.013 | 5.5 |
| Chromium | 29 | 0.38 | 14 |
| Cobalt | 0.0 | 0.063 | 0.0 |
| Copper | 10 | 0.16 | 23 |
| Lead | 8.8 | 0.063 | 0.58 |
| Manganese | 640 | 2.0 | 759 |
| Mercury | 0.033 | 0.00023 | 0.037 |
| Molybdenum | 6.3 | 0.077 | 7.5 |
| Nickel | 34 | 0.44 | 4.2 |
| Selenium | 3.5 | 0.096 | 4.2 |
| Silver | 0.0 | 0.00053 | 0.0 |
| Thallium | 0.26 | 0.0028 | 0.31 |
| Tin | 51 | 0.0044 | 60 |
| Vanadium | 0.0 | 0.31 | -- |
| Zinc | 43 | 0.47 | 125 |
| Dioxins/Furans | | | |
| Total Avian Dioxin TEQ | 0.00000028 | 0.0000000065 | 0.00000078 |
| Total Mammalian Dioxin TEQ | 0.00000033 | 0.0000000091 | 0.00000091 |
| Total Avian TEQ | No Data | No Data | No Data |
| Total Mammalian TEQ | No Data | No Data | No Data |
| Herbicides | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.0 | 0.0 | 0.0 |
| Dichlorprop | 0.0 | 0.0 | 0.0 |
| MCPP | 0.0 | 0.0 | 0.0 |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | |
| 2-Methylnaphthalene | 0.0010 | 0.0 | 0.00048 |
| Benzo(a)anthracene | 0.00045 | 0.000011 | 0.00064 |
| Benzo(a)pyrene | 0.00029 | 0.000016 | 0.00039 |
| Benzo(b)fluoranthene | 0.00068 | 0.000057 | 0.000039 |
| Benzo(g,h,i)perylene | 0.00052 | 0.000016 | 0.000062 |
| Chrysene | 0.00084 | 0.0 | 0.00061 |
| Dibenz(a,h)anthracene | 0.0 | 0.000022 | -- |
| Fluoranthene | 0.0012 | 0.0 | 0.0041 |
| Fluorene | 0.0 | 0.0 | 0.0 |
| Indeno(1,2,3-c,d)pyrene | 0.00041 | 0.0 | 0.000082 |
| Naphthalene | 0.0 | 0.0 | 0.0 |
| Phenanthrene | 0.00075 | 0.0 | 0.00076 |
| Pyrene | 0.00092 | 0.0 | 0.0033 |
| Total LMW PAH | No Data | No Data | No Data |
| Total HMW PAH | No Data | No Data | No Data |
| Polychlorinated Biphenyls (PCBs) | | | |
| Aroclor 1260 | 0.0 | 0.0 | 0.0 |
| Sum of PCB Congeners | No Data | 0.0 | No Data |
| Total Avian PCB TEQ | No Data | 0.0 | No Data |
| Total Mammalian PCB TEQ | No Data | 0.0 | No Data |

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | North Drainage | | |
|---|--------------------------------------|-------------------------|--------------------------------------|
| | Sediment ^b (mg/kg, dw) | Surface Water (mg/L) | Aquatic Invertebrates (mg/kg, dw) |
| | | | |
| Pesticides | | | |
| 4,4'-DDD | 0.00090 | 0.0 | 0.0062 |
| 4,4'-DDE | 0.00030 | 0.0 | 0.0027 |
| 4,4'-DDT | 0.00054 | 0.0 | 0.0028 |
| Chlordane, alpha | 0.0 | 0.0 | 0.0 |
| Endosulfan I | 0.00027 | 0.0 | 0.0010 |
| Endosulfan II | 0.0011 | 0.0 | 0.0042 |
| Endosulfan sulfate | 0.0 | 0.0 | 0.0 |
| Endrin | 0.0 | 0.0 | 0.0 |
| Heptachlor | 0.00037 | 0.0 | 0.0032 |
| Hexachlorobenzene | 0.00058 | 0.0 | 0.011 |
| Kepone | No Data | 0.0 | No Data |
| Semi-Volatile Organic Compounds (SVOCs) | | | |
| Bis(2-chloroethyl)ether | 0.0 | 0.000092 | -- |
| Bis(2-ethylhexyl)phthalate | 0.0 | 0.0016 | -- |
| N-Nitrosodiethylamine | 0.0 | 0.000067 | -- |
| N-Nitrosodipropylamine | 0.0 | 0.000086 | -- |
| N-Nitrosopyrrolidine | 0.0 | 0.000094 | -- |
| Volatile Organic Compounds (VOCs) | | | |
| 1,1-Dichloroethane | 0.0 | 0.0 | 0.0 |
| 1,2-Dibromoethane (EDB) | 0.0 | 0.0 | 0.0 |
| 1,2-Dichloroethene | 0.0 | 0.0 | 0.0 |
| Acetone | 0.0 | 0.32 | 0.0 |
| Acetonitrile | 0.0 | 0.0 | 0.0 |
| Benzene | 0.0 | 0.0 | 0.0 |
| Carbon disulfide | 0.0 | 0.0 | 0.0 |
| Diisopropyl ether | 0.0 | 0.0 | 0.0 |
| Ethylbenzene | 0.0069 | 0.0 | 0.0 |
| Ethylene glycol | 0.0 | 4.0 | 0.0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0 | 0.0 | 0.0 |
| Methyl ethyl ketone | 0.0 | 0.0 | 0.0 |
| Methyl isobutyl ketone (MIBK) | 0.0 | 0.49 | 0.0 |
| Methylcyclopentane | 0.0 | 0.0 | 0.0 |
| Methylene chloride | 0.0 | 0.0 | 0.0 |
| Nonanal | 0.0 | 0.00091 | 0.0 |
| Propanal | 0.0 | 0.0 | 0.0 |
| Tetrahydrofuran | 0.0 | 0.0 | 0.0 |
| Trichloroethylene | 0.0 | 0.0 | 0.0 |

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | A Drainage | | |
|--|--------------------------------------|-------------------------|--------------------------------------|
| | Sediment ^b (mg/kg, dw) | Surface Water (mg/L) | Aquatic Invertebrates (mg/kg, dw) |
| | | | |
| Inorganics^a | | | |
| Antimony | 0.0 | 0.0 | 0.0 |
| Arsenic | 0.0 | 0.0023 | 0.0 |
| Barium | 120 | 0.035 | 142 |
| Beryllium | 0.0 | 0.00010 | 0.0 |
| Cadmium | 0.86 | 0.00023 | 2.6 |
| Chromium | 26 | 0.0 | 12 |
| Cobalt | 0.0 | 0.0 | 0.0 |
| Copper | 9.5 | 0.032 | 23 |
| Lead | 9.8 | 0.00086 | 0.65 |
| Manganese | 840 | 0.031 | 996 |
| Mercury | 0.0 | 0.0 | 0.0 |
| Molybdenum | 3.0 | 0.0 | 3.6 |
| Nickel | 25 | 0.013 | 3.4 |
| Selenium | 1.1 | 0.0017 | 1.3 |
| Silver | 0.0 | 0.0 | 0.0 |
| Thallium | 0.26 | 0.0 | 0.31 |
| Tin | 52 | 0.0 | 62 |
| Vanadium | 0.0 | 0.0 | -- |
| Zinc | 37 | 0.010 | 122 |
| Dioxins/Furans | | | |
| Total Avian Dioxin TEQ | 0.0000011 | 0.0000000000037 | 0.0000031 |
| Total Mammalian Dioxin TEQ | 0.0000016 | 0.0000000000055 | 0.0000045 |
| Total Avian TEQ | No Data | No Data | No Data |
| Total Mammalian TEQ | No Data | No Data | No Data |
| Herbicides | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.0 | 0.0 | 0.0 |
| Dichlorprop | 0.0 | 0.0 | 0.0 |
| MCPP | 0.0 | 0.0 | 0.0 |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | |
| 2-Methylnaphthalene | 0.0012 | 0.0 | 0.00057 |
| Benzo(a)anthracene | 0.0038 | 0.0 | 0.0054 |
| Benzo(a)pyrene | 0.0035 | 0.0 | 0.0047 |
| Benzo(b)fluoranthene | 0.0026 | 0.0 | 0.00015 |
| Benzo(g,h,i)perylene | 0.0029 | 0.0 | 0.00035 |
| Chrysene | 0.0050 | 0.0 | 0.0036 |
| Dibenz(a,h)anthracene | 0.0 | 0.0 | -- |
| Fluoranthene | 0.0089 | 0.0 | 0.031 |
| Fluorene | 0.00059 | 0.0 | 0.00028 |
| Indeno(1,2,3-c,d)pyrene | 0.0030 | 0.0 | 0.00060 |
| Naphthalene | 0.0 | 0.000030 | 0.0 |
| Phenanthrene | 0.0099 | 0.0 | 0.010 |
| Pyrene | 0.011 | 0.0 | 0.040 |
| Total LMW PAH | No Data | No Data | No Data |
| Total HMW PAH | No Data | No Data | No Data |
| Polychlorinated Biphenyls (PCBs) | | | |
| Aroclor 1260 | 0.0057 | 0.0 | 0.071 |
| Sum of PCB Congeners | No Data | 0.0 | No Data |
| Total Avian PCB TEQ | No Data | 0.0 | No Data |
| Total Mammalian PCB TEQ | No Data | 0.0 | No Data |

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | A Drainage | | |
|---|--------------------------------------|-------------------------|--------------------------------------|
| | Sediment ^b (mg/kg, dw) | Surface Water (mg/L) | Aquatic Invertebrates (mg/kg, dw) |
| | | | |
| Pesticides | | | |
| 4,4'-DDD | 0.00092 | 0.0 | 0.0064 |
| 4,4'-DDE | 0.0018 | 0.0 | 0.016 |
| 4,4'-DDT | 0.00027 | 0.0 | 0.0014 |
| Chlordane, alpha | 0.00036 | 0.0 | 0.0078 |
| Endosulfan I | 0.0012 | 0.0 | 0.0046 |
| Endosulfan II | 0.0 | 0.0 | 0.0 |
| Endosulfan sulfate | 0.0012 | 0.0 | 0.0046 |
| Endrin | 0.0 | 0.0 | 0.0 |
| Heptachlor | 0.0 | 0.0 | 0.0 |
| Hexachlorobenzene | 0.00032 | 0.0 | 0.0060 |
| Kepone | No Data | 0.0 | No Data |
| Semi-Volatile Organic Compounds (SVOCs) | | | |
| Bis(2-chloroethyl)ether | 0.0 | 0.0 | -- |
| Bis(2-ethylhexyl)phthalate | 0.0 | 0.0 | -- |
| N-Nitrosodiethylamine | 0.0 | 0.0 | -- |
| N-Nitrosodipropylamine | 0.0 | 0.000050 | -- |
| N-Nitrosopyrrolidine | 0.0 | 0.0 | -- |
| Volatile Organic Compounds (VOCs) | | | |
| 1,1-Dichloroethane | 0.0 | 0.0 | 0.0 |
| 1,2-Dibromoethane (EDB) | 0.0 | 0.0 | 0.0 |
| 1,2-Dichloroethene | 0.0 | 0.0 | 0.0 |
| Acetone | 0.0 | 0.0 | 0.0 |
| Acetonitrile | 0.0 | 0.0 | 0.0 |
| Benzene | 0.0033 | 0.0 | 0.0 |
| Carbon disulfide | 0.010 | 0.0 | 0.0 |
| Diisopropyl ether | 0.0 | 0.0 | 0.0 |
| Ethylbenzene | 0.0 | 0.0 | 0.0 |
| Ethylene glycol | 0.0 | 4.1 | 0.0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0 | 0.0 | 0.0 |
| Methyl ethyl ketone | 0.010 | 0.0 | 0.0 |
| Methyl isobutyl ketone (MIBK) | 0.0 | 0.0 | 0.0 |
| Methylcyclopentane | 0.0 | 0.0 | 0.0 |
| Methylene chloride | 0.0 | 0.0 | 0.0 |
| Nonanal | 0.0 | 0.0 | 0.0 |
| Propanal | 0.0 | 0.0 | 0.0 |
| Tetrahydrofuran | 0.0 | 0.0 | 0.0 |
| Trichloroethylene | 0.0 | 0.0 | 0.0 |

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Lower C Drainage | | |
|--|--------------------------------------|-------------------------|--------------------------------------|
| | Sediment ^b (mg/kg, dw) | Surface Water (mg/L) | Aquatic Invertebrates (mg/kg, dw) |
| | | | |
| Inorganics^a | | | |
| Antimony | 0.0 | 0.040 | 0.0 |
| Arsenic | 0.0 | 0.018 | 0.0 |
| Barium | 110 | 0.54 | 130 |
| Beryllium | 0.0 | 0.0043 | 0.0 |
| Cadmium | 1.7 | 0.0049 | 5.2 |
| Chromium | 30 | 0.24 | 14 |
| Cobalt | 0.0 | 0.013 | 0.0 |
| Copper | 15 | 0.11 | 26 |
| Lead | 0.0 | 0.033 | 0.0 |
| Manganese | 410 | 0.71 | 486 |
| Mercury | 0.0 | 0.00011 | 0.0 |
| Molybdenum | 4.4 | 0.027 | 5.2 |
| Nickel | 35 | 0.23 | 4.3 |
| Selenium | 2.8 | 0.0057 | 3.3 |
| Silver | 0.0 | 0.00048 | 0.0 |
| Thallium | 0.0 | 0.0015 | 0.0 |
| Tin | 53 | 0.0029 | 63 |
| Vanadium | 0.0 | 0.20 | -- |
| Zinc | 53 | 0.25 | 128 |
| Dioxins/Furans | | | |
| Total Avian Dioxin TEQ | 0.000000090 | 0.000000010 | 0.00000025 |
| Total Mammalian Dioxin TEQ | 0.00000023 | 0.000000011 | 0.00000064 |
| Total Avian TEQ | No Data | No Data | No Data |
| Total Mammalian TEQ | No Data | No Data | No Data |
| Herbicides | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.0 | 0.0 | 0.0 |
| Dichlorprop | 0.0 | 0.0 | 0.0 |
| MCPP | 0.0 | 0.0 | 0.0 |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | |
| 2-Methylnaphthalene | 0.0013 | 0.0 | 0.00062 |
| Benzo(a)anthracene | 0.0016 | 0.000011 | 0.0023 |
| Benzo(a)pyrene | 0.0013 | 0.0 | 0.0017 |
| Benzo(b)fluoranthene | 0.0 | 0.0 | 0.0 |
| Benzo(g,h,i)perylene | 0.0012 | 0.0 | 0.00014 |
| Chrysene | 0.0020 | 0.0 | 0.0014 |
| Dibenz(a,h)anthracene | 0.0 | 0.0 | -- |
| Fluoranthene | 0.0021 | 0.0 | 0.0072 |
| Fluorene | 0.00054 | 0.0 | 0.00026 |
| Indeno(1,2,3-c,d)pyrene | 0.00074 | 0.0 | 0.00015 |
| Naphthalene | 0.0 | 0.0 | 0.0 |
| Phenanthrene | 0.0028 | 0.0 | 0.0028 |
| Pyrene | 0.0043 | 0.0 | 0.016 |
| Total LMW PAH | No Data | No Data | No Data |
| Total HMW PAH | No Data | No Data | No Data |
| Polychlorinated Biphenyls (PCBs) | | | |
| Aroclor 1260 | 0.0 | 0.0 | 0.0 |
| Sum of PCB Congeners | No Data | 0.0 | No Data |
| Total Avian PCB TEQ | No Data | 0.0 | No Data |
| Total Mammalian PCB TEQ | No Data | 0.0 | No Data |

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Lower C Drainage | | |
|---|--------------------------------------|-------------------------|--------------------------------------|
| | Sediment ^b (mg/kg, dw) | Surface Water (mg/L) | Aquatic Invertebrates (mg/kg, dw) |
| | | | |
| Pesticides | | | |
| 4,4'-DDD | 0.00083 | 0.0 | 0.0057 |
| 4,4'-DDE | 0.00066 | 0.0 | 0.0060 |
| 4,4'-DDT | 0.0 | 0.0 | 0.0 |
| Chlordane, alpha | 0.0 | 0.0 | 0.0 |
| Endosulfan I | 0.0012 | 0.0 | 0.0046 |
| Endosulfan II | 0.0 | 0.0 | 0.0 |
| Endosulfan sulfate | 0.0 | 0.0 | 0.0 |
| Endrin | 0.0 | 0.0 | 0.0 |
| Heptachlor | 0.00063 | 0.0 | 0.0054 |
| Hexachlorobenzene | 0.0013 | 0.0 | 0.024 |
| Kepone | No Data | 0.0 | No Data |
| Semi-Volatile Organic Compounds (SVOCs) | | | |
| Bis(2-chloroethyl)ether | 0.0 | 0.000016 | -- |
| Bis(2-ethylhexyl)phthalate | 0.0 | 0.0013 | -- |
| N-Nitrosodiethylamine | 0.0 | 0.0 | -- |
| N-Nitrosodipropylamine | 0.0 | 0.00010 | -- |
| N-Nitrosopyrrolidine | 0.0 | 0.0 | -- |
| Volatile Organic Compounds (VOCs) | | | |
| 1,1-Dichloroethane | 0.0 | 0.0 | 0.0 |
| 1,2-Dibromoethane (EDB) | 0.0 | 0.0 | 0.0 |
| 1,2-Dichloroethene | 0.0 | 0.0 | 0.0 |
| Acetone | 0.0 | 1.1 | 0.0 |
| Acetonitrile | 0.0 | 3.7 | 0.0 |
| Benzene | 0.0 | 0.0 | 0.0 |
| Carbon disulfide | 0.0 | 0.00059 | 0.0 |
| Diisopropyl ether | 0.0 | 0.0 | 0.0 |
| Ethylbenzene | 0.0 | 0.0 | 0.0 |
| Ethylene glycol | 0.0 | 6.4 | 0.0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0 | 0.0 | 0.0 |
| Methyl ethyl ketone | 0.024 | 0.0 | 0.0 |
| Methyl isobutyl ketone (MIBK) | 0.0059 | 0.0 | 0.0 |
| Methylcyclopentane | 0.0 | 0.0 | 0.0 |
| Methylene chloride | 0.0 | 0.0 | 0.0 |
| Nonanal | 0.0 | 0.0 | 0.0 |
| Propanal | 0.94 | 0.0 | 0.0 |
| Tetrahydrofuran | 0.0 | 0.0 | 0.0 |
| Trichloroethylene | 0.0 | 0.0 | 0.0 |

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Upper C Drainage | | |
|--|--------------------------------------|-------------------------|--------------------------------------|
| | Sediment ^b (mg/kg, dw) | Surface Water (mg/L) | Aquatic Invertebrates (mg/kg, dw) |
| | | | |
| Inorganics^a | | | |
| Antimony | 0.0 | 0.044 | 0.0 |
| Arsenic | 0.0 | 0.019 | 0.0 |
| Barium | 96 | 0.64 | 114 |
| Beryllium | 0.0 | 0.0047 | 0.0 |
| Cadmium | 4.9 | 0.0061 | 15 |
| Chromium | 41 | 0.24 | 19 |
| Cobalt | 0.0 | 0.0 | 0.0 |
| Copper | 24 | 0.11 | 30 |
| Lead | 0.0 | 0.034 | 0.0 |
| Manganese | 110 | 0.65 | 130 |
| Mercury | 0.0 | 0.00012 | 0.0 |
| Molybdenum | 6.4 | 0.022 | 7.6 |
| Nickel | 43 | 0.23 | 5.0 |
| Selenium | 0.0 | 0.0043 | 0.0 |
| Silver | 0.0 | 0.00053 | 0.0 |
| Thallium | 0.0 | 0.0016 | 0.0 |
| Tin | 48 | 0.0032 | 57 |
| Vanadium | 0.0 | 0.23 | -- |
| Zinc | 88 | 0.28 | 136 |
| Dioxins/Furans | | | |
| Total Avian Dioxin TEQ | No Data | 0.000000012 | No Data |
| Total Mammalian Dioxin TEQ | No Data | 0.000000013 | No Data |
| Total Avian TEQ | No Data | No Data | No Data |
| Total Mammalian TEQ | No Data | No Data | No Data |
| Herbicides | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | No Data | 0.0 | No Data |
| Dichlorprop | No Data | 0.0 | No Data |
| MCPP | No Data | 0.0 | No Data |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | |
| 2-Methylnaphthalene | 0.0010 | 0.0 | 0.00048 |
| Benzo(a)anthracene | 0.00095 | 0.000010 | 0.0014 |
| Benzo(a)pyrene | 0.00087 | 0.0 | 0.0012 |
| Benzo(b)fluoranthene | 0.0 | 0.0 | 0.0 |
| Benzo(g,h,i)perylene | 0.00083 | 0.0 | 0.000099 |
| Chrysene | 0.0017 | 0.0 | 0.0012 |
| Dibenzo(a,h)anthracene | 0.0 | 0.0 | -- |
| Fluoranthene | 0.0011 | 0.0 | 0.0038 |
| Fluorene | 0.0 | 0.0 | 0.0 |
| Indeno(1,2,3-c,d)pyrene | 0.00051 | 0.0 | 0.00010 |
| Naphthalene | 0.0 | 0.0 | 0.0 |
| Phenanthrene | 0.00088 | 0.0 | 0.00089 |
| Pyrene | 0.0016 | 0.0 | 0.0058 |
| Total LMW PAH | No Data | No Data | No Data |
| Total HMW PAH | No Data | No Data | No Data |
| Polychlorinated Biphenyls (PCBs) | | | |
| Aroclor 1260 | 0.0 | 0.0 | 0.0 |
| Sum of PCB Congeners | No Data | 0.0 | No Data |
| Total Avian PCB TEQ | No Data | 0.0 | No Data |
| Total Mammalian PCB TEQ | No Data | 0.0 | No Data |

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Upper C Drainage | | |
|---|--------------------------------------|-------------------------|--------------------------------------|
| | Sediment ^b (mg/kg, dw) | Surface Water (mg/L) | Aquatic Invertebrates (mg/kg, dw) |
| | | | |
| Pesticides | | | |
| 4,4'-DDD | 0.0025 | 0.0 | 0.017 |
| 4,4'-DDE | 0.0022 | 0.0 | 0.020 |
| 4,4'-DDT | 0.0011 | 0.0 | 0.0056 |
| Chlordane, alpha | 0.00042 | 0.0 | 0.0091 |
| Endosulfan I | 0.0 | 0.0 | 0.0 |
| Endosulfan II | 0.0 | 0.0 | 0.0 |
| Endosulfan sulfate | 0.0 | 0.0 | 0.0 |
| Endrin | 0.0 | 0.0 | 0.0 |
| Heptachlor | 0.00034 | 0.0 | 0.0029 |
| Hexachlorobenzene | 0.00052 | 0.0 | 0.0098 |
| Kepone | No Data | 0.0 | No Data |
| Semi-Volatile Organic Compounds (SVOCs) | | | |
| Bis(2-chloroethyl)ether | 0.0 | 0.0 | -- |
| Bis(2-ethylhexyl)phthalate | 0.0 | 0.0 | -- |
| N-Nitrosodiethylamine | 0.0 | 0.0 | -- |
| N-Nitrosodipropylamine | 0.0 | 0.000068 | -- |
| N-Nitrosopyrrolidine | 0.0 | 0.0 | -- |
| Volatile Organic Compounds (VOCs) | | | |
| 1,1-Dichloroethane | No Data | 0.0 | No Data |
| 1,2-Dibromoethane (EDB) | 0.0 | 0.0 | 0.0 |
| 1,2-Dichloroethene | No Data | 0.0 | No Data |
| Acetone | No Data | 0.0 | No Data |
| Acetonitrile | 0.0 | 0.0 | 0.0 |
| Benzene | No Data | 0.0 | No Data |
| Carbon disulfide | No Data | 0.0 | No Data |
| Diisopropyl ether | No Data | 0.0 | No Data |
| Ethylbenzene | No Data | 0.0 | No Data |
| Ethylene glycol | 0.0 | 5.3 | 0.0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | No Data | 0.0 | No Data |
| Methyl ethyl ketone | No Data | 0.0 | No Data |
| Methyl isobutyl ketone (MIBK) | No Data | 0.0 | No Data |
| Methylcyclopentane | No Data | 0.0 | No Data |
| Methylene chloride | No Data | 0.0 | No Data |
| Nonanal | 0.0 | 0.0 | 0.0 |
| Propanal | No Data | 0.0 | No Data |
| Tetrahydrofuran | No Data | 0.0 | No Data |
| Trichloroethylene | No Data | 0.0 | No Data |

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | B Drainage | | |
|--|--------------------------------------|-------------------------|--------------------------------------|
| | Sediment ^b (mg/kg, dw) | Surface Water (mg/L) | Aquatic Invertebrates (mg/kg, dw) |
| | | | |
| Inorganics^a | | | |
| Antimony | 0.0 | No Data | 0.0 |
| Arsenic | 0.0 | No Data | 0.0 |
| Barium | 93 | No Data | 110 |
| Beryllium | 0.0 | No Data | 0.0 |
| Cadmium | 1.8 | No Data | 5.5 |
| Chromium | 33 | No Data | 15 |
| Cobalt | 0.0 | No Data | 0.0 |
| Copper | 12 | No Data | 24 |
| Lead | 8.5 | No Data | 0.56 |
| Manganese | 300 | No Data | 356 |
| Mercury | 0.0 | No Data | 0.0 |
| Molybdenum | 2.7 | No Data | 3.2 |
| Nickel | 33 | No Data | 4.1 |
| Selenium | 0.0 | No Data | 0.0 |
| Silver | 0.0 | No Data | 0.0 |
| Thallium | 0.36 | No Data | 0.43 |
| Tin | 40 | No Data | 47 |
| Vanadium | 0.0 | No Data | -- |
| Zinc | 46 | No Data | 126 |
| Dioxins/Furans | | | |
| Total Avian Dioxin TEQ | 0.000013 | No Data | 0.000037 |
| Total Mammalian Dioxin TEQ | 0.0000022 | No Data | 0.0000060 |
| Total Avian TEQ | No Data | 0.0 | No Data |
| Total Mammalian TEQ | No Data | 0.0 | No Data |
| Herbicides | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.0 | No Data | 0.0 |
| Dichlorprop | No Data | No Data | No Data |
| MCPP | 0.0 | No Data | 0.0 |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | |
| 2-Methylnaphthalene | No Data | No Data | No Data |
| Benzo(a)anthracene | 0.0 | No Data | 0.0 |
| Benzo(a)pyrene | 0.0 | No Data | 0.0 |
| Benzo(b)fluoranthene | 0.0 | No Data | 0.0 |
| Benzo(g,h,i)perylene | 0.0 | No Data | 0.0 |
| Chrysene | 0.0 | No Data | 0.0 |
| Dibenzo(a,h)anthracene | 0.0 | No Data | -- |
| Fluoranthene | 0.0 | No Data | 0.0 |
| Fluorene | 0.0 | No Data | 0.0 |
| Indeno(1,2,3-c,d)pyrene | 0.0 | No Data | 0.0 |
| Naphthalene | 0.0 | No Data | 0.0 |
| Phenanthrene | No Data | No Data | No Data |
| Pyrene | 0.0 | No Data | 0.0 |
| Total LMW PAH | No Data | No Data | No Data |
| Total HMW PAH | No Data | No Data | No Data |
| Polychlorinated Biphenyls (PCBs) | | | |
| Aroclor 1260 | 0.0 | No Data | 0.0 |
| Sum of PCB Congeners | No Data | No Data | No Data |
| Total Avian PCB TEQ | No Data | No Data | No Data |
| Total Mammalian PCB TEQ | No Data | No Data | No Data |

Table U.A5-15
Aquatic Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | B Drainage | | |
|---|--------------------------------------|-------------------------|--------------------------------------|
| | Sediment ^b (mg/kg, dw) | Surface Water (mg/L) | Aquatic Invertebrates (mg/kg, dw) |
| | | | |
| Pesticides | | | |
| 4,4'-DDD | No Data | No Data | No Data |
| 4,4'-DDE | 0.0 | No Data | 0.0 |
| 4,4'-DDT | 0.0 | No Data | 0.0 |
| Chlordane, alpha | No Data | No Data | No Data |
| Endosulfan I | No Data | No Data | No Data |
| Endosulfan II | No Data | No Data | No Data |
| Endosulfan sulfate | No Data | No Data | No Data |
| Endrin | No Data | No Data | No Data |
| Heptachlor | No Data | No Data | No Data |
| Hexachlorobenzene | 0.0 | No Data | 0.0 |
| Kepone | No Data | No Data | No Data |
| Semi-Volatile Organic Compounds (SVOCs) | | | |
| Bis(2-chloroethyl)ether | 0.0 | No Data | -- |
| Bis(2-ethylhexyl)phthalate | 0.0 | No Data | -- |
| N-Nitrosodiethylamine | 0.0 | No Data | -- |
| N-Nitrosodipropylamine | 0.0 | No Data | -- |
| N-Nitrosopyrrolidine | 0.0 | No Data | -- |
| Volatile Organic Compounds (VOCs) | | | |
| 1,1-Dichloroethane | 0.0 | No Data | 0.0 |
| 1,2-Dibromoethane (EDB) | 0.0 | No Data | 0.0 |
| 1,2-Dichloroethene | 0.0 | No Data | 0.0 |
| Acetone | 0.0 | No Data | 0.0 |
| Acetonitrile | 0.0 | No Data | 0.0 |
| Benzene | 0.0 | No Data | 0.0 |
| Carbon disulfide | 0.0 | No Data | 0.0 |
| Diisopropyl ether | No Data | No Data | No Data |
| Ethylbenzene | No Data | No Data | No Data |
| Ethylene glycol | 0.0 | No Data | 0.0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0 | No Data | 0.0 |
| Methyl ethyl ketone | 0.0 | No Data | 0.0 |
| Methyl isobutyl ketone (MIBK) | No Data | No Data | No Data |
| Methylcyclopentane | No Data | No Data | No Data |
| Methylene chloride | 0.0 | No Data | 0.0 |
| Nonanal | 0.0 | No Data | 0.0 |
| Propanal | 0.0 | No Data | 0.0 |
| Tetrahydrofuran | 0.0 | No Data | 0.0 |
| Trichloroethylene | 0.0 | No Data | 0.0 |

Table U.A5-15
Exposure Units Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

CPEC = Constituent of Potential Ecological Concern

EPC = Exposure Point Concentration

ft bgs = feet below ground surface

HMW = High Molecular Weight

LMW = Low Molecular Weight

NA = Not Applicable

No Data = CPEC was not analyzed in the sample

PCB = Polychlorinated Biphenyl

TEQ = Toxic Equivalent; Total TEQ = Total PCB TEQ + Total Dioxin TEQ

"--" = No Bioaccumulation Factor; EPC not calculated.

mg/kg, dw = milligrams per kilogram, dry weight

mg/L = milligrams per liter

An EPC value of 0.0 indicates:

- a.) CPEC was not detected in the onsite media. Offsite detections resulted in inclusion of the compound if the frequency of detection was >5%.
- b.) Compound was not a CPEC in the matrix.

^a Surface water values for metals are total concentrations.

^bSediment is surface values (0-0.5 ft. bgs)

Table U.A5-16
Stormwater Impoundments Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Stormwater Impoundments | | |
|--|-------------------------|---------------|-----------------------|
| | Sediment ^b | Surface Water | Aquatic Invertebrates |
| | (mg/kg, dw) | (mg/L) | (mg/kg, dw) |
| Inorganics^a | | | |
| Antimony | 0.0 | 0.00048 | 0.0 |
| Arsenic | 0.0 | 0.31 | 0.0 |
| Barium | 750 | 0.056 | 890 |
| Beryllium | 0.0 | 0.00051 | 0.0 |
| Cadmium | 21 | 0.0 | 64 |
| Chromium | 42 | 0.032 | 20 |
| Cobalt | 0.0 | 0.0 | 0.0 |
| Copper | 44 | 0.030 | 35 |
| Lead | 9.8 | 0.00019 | 0.64 |
| Manganese | 340 | 0.53 | 403 |
| Mercury | 0.050 | 0.00012 | 0.057 |
| Molybdenum | 21 | 0.044 | 25 |
| Nickel | 164 | 0.44 | 13 |
| Selenium | 9.4 | 1.6 | 11 |
| Silver | 0.0 | 0.00027 | 0.0 |
| Thallium | 0.51 | 0.0 | 0.60 |
| Tin | 69 | 0.0 | 82 |
| Vanadium | 0.0 | 0.12 | -- |
| Zinc | 112 | 0.069 | 141 |
| Dioxins/Furans | | | |
| Total Avian Dioxin TEQ | 3.83E-07 | 2.91E-12 | 1.07E-06 |
| Total Mammalian Dioxin TEQ | 2.97E-07 | 8.73E-12 | 8.32E-07 |
| Total Avian TEQ | No Data | No Data | No Data |
| Total Mammalian TEQ | No Data | No Data | No Data |
| Herbicides | | | |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 0.10 | 0.0 | 0.0 |
| Dichlorprop | 0.020 | 0.0 | 0.0 |
| MCPP | 1.0 | 0.0 | 0.0 |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | |
| 2-Methylnaphthalene | 0.0 | 0.0 | 0.0 |
| Benzo(a)anthracene | 0.0 | 0.0 | 0.0 |
| Benzo(a)pyrene | 0.0 | 0.000013 | 0.0 |
| Benzo(b)fluoranthene | 0.0 | 0.0 | 0.0 |
| Benzo(g,h,i)perylene | 0.0 | 0.0 | 0.0 |
| Chrysene | 0.011 | 0.0 | 0.0080 |
| Dibenzo(a,h)anthracene | 0.0 | 0.0 | -- |
| Fluoranthene | 0.0 | 0.0 | 0.0 |
| Fluorene | 0.0027 | 0.0 | 0.0013 |
| Indeno(1,2,3-c,d)pyrene | 0.0 | 0.0 | 0.0 |
| Naphthalene | 0.017 | 0.000016 | 0.0064 |
| Phenanthrene | 0.0 | 0.0 | 0.0 |
| Pyrene | 0.017 | 0.0 | 0.061 |
| Total LMW PAH | No Data | No Data | No Data |
| Total HMW PAH | No Data | No Data | No Data |

Table U.A5-16
Stormwater Impoundments Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

| CPEC | Stormwater Impoundments | | |
|---|-------------------------|---------------|-----------------------|
| | Sediment ^b | Surface Water | Aquatic Invertebrates |
| | (mg/kg, dw) | (mg/L) | (mg/kg, dw) |
| Polychlorinated Biphenyls (PCBs) | | | |
| Aroclor 1260 | 0.099 | 0.0 | 1.2 |
| Sum of PCB Congeners | 0.16 | 0.0 | 2.0 |
| Total Avian PCB TEQ | 1.09E-04 | 0.00E+00 | 1.32E-03 |
| Total Mammalian PCB TEQ | 1.16E-05 | 0.00E+00 | 1.41E-04 |
| Pesticides | | | |
| 4,4'-DDD | 0.012 | 0.0 | 0.083 |
| 4,4'-DDE | 0.0 | 0.0 | 0.0 |
| 4,4'-DDT | 0.0081 | 0.0 | 0.041 |
| Chlordane, alpha | 0.0 | 0.0 | 0.0 |
| Endosulfan I | 0.0 | 0.0 | 0.0 |
| Endosulfan II | 0.0 | 0.0 | 0.0 |
| Endosulfan sulfate | 0.0089 | 0.0 | 0.034 |
| Endrin | 0.0 | 0.0 | 0.0 |
| Heptachlor | 0.0 | 0.0 | 0.0 |
| Hexachlorobenzene | 0.00095 | 0.0 | 0.018 |
| Kepone | 0.0 | 0.0 | 0.0 |
| Semi-Volatile Organic Compounds (SVOCs) | | | |
| Bis(2-chloroethyl)ether | 0.0 | 0.000020 | -- |
| Bis(2-ethylhexyl)phthalate | 0.0 | 0.0 | -- |
| N-Nitrosodiethylamine | 0.0 | 0.0 | -- |
| N-Nitrosodipropylamine | 0.0 | 0.0 | -- |
| N-Nitrosopyrrolidine | 0.0 | 0.00055 | -- |
| Volatile Organic Compounds (VOCs) | | | |
| 1,1-Dichloroethane | 0.012 | 0.0 | 0.0 |
| 1,2-Dibromoethane (EDB) | 0.0 | 0.000012 | 0.0 |
| 1,2-Dichloroethene | 0.0 | 0.0 | 0.0 |
| Acetone | 0.065 | No Data | 0.0 |
| Acetonitrile | 0.0 | No Data | 0.0 |
| Benzene | 0.0 | 0.0 | 0.0 |
| Carbon disulfide | 0.15 | 0.0 | 0.0 |
| Diisopropyl ether | 0.0 | 0.0 | 0.0 |
| Ethylbenzene | 0.0 | 0.0 | 0.0 |
| Ethylene glycol | 0.0 | No Data | 0.0 |
| Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane) | 0.0 | 0.0 | 0.0 |
| Methyl ethyl ketone | 0.0 | 0.0 | 0.0 |
| Methyl isobutyl ketone (MIBK) | 0.0 | No Data | 0.0 |
| Methylcyclopentane | 0.0 | 0.0 | 0.0 |
| Methylene chloride | 0.0029 | 0.0070 | 0.0 |
| Nonanal | 0.0 | 0.0 | 0.0 |
| Propanal | 0.0 | 0.0 | 0.0 |
| Tetrahydrofuran | 0.0 | 0.0 | 0.0 |
| Trichloroethylene | 0.0 | 0.0 | 0.0 |

Table U.A5-16
Stormwater Impoundments Exposure Point Concentrations for Wildlife
Based on Maximum Concentrations

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